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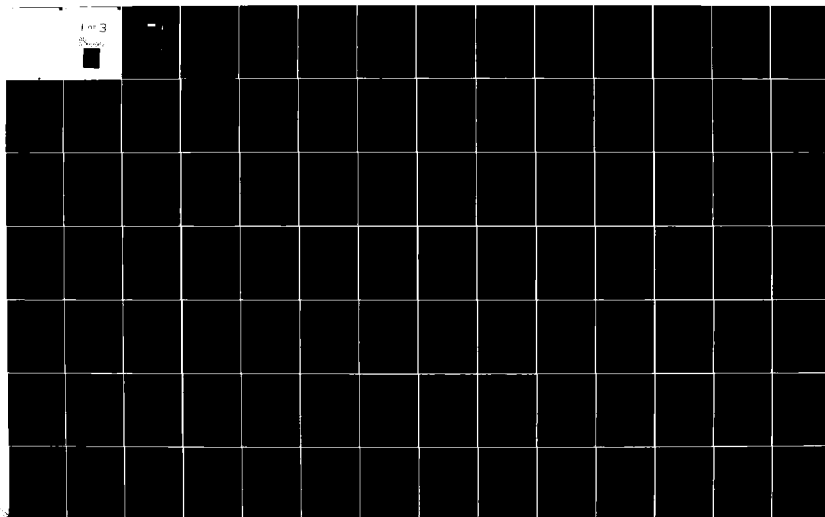
AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
BARDENAS REALES RANGE, SPAIN. REVISED UNIFORM SUMMARY OF SURFAC--ETC(U)  
JUN 75

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USAFETAC/DS-80/088

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Page 3



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USAFETAC  
Air Weather Service ( MAC )

REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBSERVATIONS

HARDENAS REALES RANGE (CIN)  
N 42 12 W 001 27 FLD JULY 968 1418

WEAN #14013  
WMO #08087

PARTS A, C-F

FOR FROM HOURLY OBS 30 JUL 75, MAR TO MAY 75  
FOR FROM DAILY 30 JAN 76, MAR TO MAY 75

JUN 30 1975

FEDERAL BUILDING  
ASHEVILLE, N. C.

AD A088962

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM															
1. REPORT NUMBER USAFETAC/DS- 80/088	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER															
4. TITLE (and Subtitle) Revised Uniform Summary of Surface Weather Observations (RUSSWO)- Bardenas Reales Range, Spain		5. TYPE OF REPORT & PERIOD COVERED Final rept.															
7. AUTHOR(s)		6. PERFORMING ORG. REPORT NUMBER															
9. PERFORMING ORGANIZATION NAME AND ADDRESS USAFETAC/OL-A Air Force Environmental Technical Appl. Center Scott AFB IL 62225		8. CONTRACT OR GRANT NUMBER(s)															
11. CONTROLLING OFFICE NAME AND ADDRESS USAFETAC/CBD Air Weather Service (MAC) Scott AFB IL 62225		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS															
12. REPORT DATE 30 June, 75		13. NUMBER OF PAGES															
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		15. SECURITY CLASS. of this report UNCLASSIFIED															
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		15# DECLASSIFICATION DOWNGRADING SCHEDULE															
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)																	
18. SUPPLEMENTARY NOTES																	
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) <table border="0"> <tr> <td>*RUSSWO</td> <td>Daily temperatures</td> <td>Atmospheric pressure</td> </tr> <tr> <td>Snowfall</td> <td>Extreme snow depth</td> <td>Extreme surface winds</td> </tr> <tr> <td>Climatology</td> <td>Sea-level pressure</td> <td>Psychrometric summary</td> </tr> <tr> <td>Surface Winds</td> <td>Extreme temperature</td> <td>Ceiling versus visibility</td> </tr> <tr> <td>Relative Humidity</td> <td>*Climatological data</td> <td>(over)</td> </tr> </table>			*RUSSWO	Daily temperatures	Atmospheric pressure	Snowfall	Extreme snow depth	Extreme surface winds	Climatology	Sea-level pressure	Psychrometric summary	Surface Winds	Extreme temperature	Ceiling versus visibility	Relative Humidity	*Climatological data	(over)
*RUSSWO	Daily temperatures	Atmospheric pressure															
Snowfall	Extreme snow depth	Extreme surface winds															
Climatology	Sea-level pressure	Psychrometric summary															
Surface Winds	Extreme temperature	Ceiling versus visibility															
Relative Humidity	*Climatological data	(over)															
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report is a six-part statistical summary of surface weather observations for Bardenas Reales Range, Spain It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values); (C) Surface winds; (D) Ceiling versus Visibility; Sky Cover; (E) Psychrometric Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb (over)																	



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19. Percentage frequency of distribution tables  
Dry-bulb temperature versus wet-bulb temperature  
Cumulative percentage frequency of distribution tables

\* Spain

\*\* Bardenas Reales Range, Spain

20. and dew point temperatures and relative humidity); and (F) Pressure Summary (means, standard, deviations, and observation counts of station pressure and sea-level pressure). Data in this report are presented in tabular form, in most cases in percentage frequency of occurrence or cumulative percentage frequency of occurring tables.

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## REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

### HOURLY OBSERVATIONS

Hourly observations are defined as those record or record-special observations recorded at scheduled hourly intervals.

### DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations. (Selected from record-special, local, summary of the day, remarks, etc.)

### DESCRIPTION OF SUMMARIES

Preceding each section is a brief description of the data comprising each part of the Revised Uniform Summary of Surface Weather Observations and the manner of presentation. Tabulations are prepared from hourly and daily observations recorded by stations operated by the U. S. Services and some foreign stations using similar reporting practices.

Unless otherwise noted the following summaries are included for this station:

#### PART A WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

#### PART B PRECIPITATION DATA NOT AVAILABLE

SNOWFALL DATA NOT AVAILABLE

SNOW DEPTH DATA NOT AVAILABLE

#### PART C SURFACE WINDS

#### PART D CEILING VERSUS VISIBILITY

SKYCOVER

#### PART E DAILY MAX, MIN, & MEAN TEMP

EXTREME MAX & MIN TEMP

PSYCHROMETRIC-DRY VS WET BULB

MEAN & STD DEV -  
(DRY BULB, WET BULB, & DEW POINT)

RELATIVE HUMIDITY

#### PART F STATION PRESSURE

SEA LEVEL PRESSURE DATA NOT AVAILABLE

### STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 hours local standard time.

### MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY 00-02, 18-20, 21-23	APRIL 00-02, 18-20, 21-23	JULY 00-02, 18-20, 21-23	OCTOBER 00-02, 18-20, 21-23
FEBRUARY 00-02, 18-20, 21-23	MAY 00-02, 18-20, 21-23	AUGUST 00-02, 18-20, 21-23	NOVEMBER 00-02, 18-20, 21-23
MARCH 00-02, 18-20, 21-23	JUNE 00-02, 18-20, 21-23	SEPTEMBER 00-02, 18-20, 21-23	DECEMBER 00-02, 18-20, 21-23

STATION NO OR SUMMARY 14013		STATION NAME BARDENAS REALES RANGE SPAIN		LATITUDE N42 12		LONGITUDE W001 27		FIELD ELEV (FT) 968		CALL SIGN LEBR		WMO NUMBER 08087	
<b>STATION LOCATION AND INSTRUMENTATION HISTORY</b>													
NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY				
			FROM	TO			FIELD (FT)	HT. BARO.					
1	Bardenas Reales Range Spain	AF Rng	Jan 70	May 75	N 42 12	W 001 27	968 ft	984	4-11				
NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE							
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND								
1	1 Jan 70	N/A	TMQ 15	None	N/A								

USAFETAC

FORM  
NOV 73

0-19 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

CONTINUED ON REVERSE SIDE

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

A

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

DATA PREPARED BY: [blank]  
 DATA DATE: [blank]  
 DATA TYPE: [blank]

# WEATHER CONDITIONS

STATION: NEW LAS VEGAS RANGE SPAIN STATION NAME: 10-70 YEARS: 11 MONTH: 11

PERCENTAGE FREQUENCY OF OCCURRENCE OF THE  
 CONDITIONS PREVIOUS OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	24.0		8.7	1.2			9.9	15.4	2.0			17.4	27
FEB			7.6				7.6	1.4	7.3			9.7	27
MAR			4.5		1.2		3.7	1.0	4.0			4.9	14
APR		1.2	4.9		1		4.9	1.7	1.9			4.6	322
MAY		1.1	5.3				3.2	1.3	2.4			3.7	22
JUN		2.2	5.6			1	3.7	1.4	1.8			3.3	227
JUL		1.9	1.2				1.2		1.2			6.2	340
AUG		1.0	2.4				2.4	1.0	2.6			3.5	331
SEP		1.1	4.8				4.8	1.6	3.8			4.7	734
OCT		1.1	4.9				4.9	4.0	4.9			8.9	726
NOV			6.2				6.2	11.8	3.2			17.0	706
DEC			3.7	1.1			4.8	22.2	1.9			23.1	432
TOTALS		4	5.4	1	1	1	5.5	5.1	3.8			8.8	1130



STATION	STATION NAME	YEARS	MONTH
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PERCENTAGE FREQUENCY OF OCCURRENCE OF  
CONDITIONS FOR EACH OF THE 100'S

USAFETAC FORM 0-10-5(OL A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JULY 64



STATION

STATION NAME

YEARS

MONTH

USAFETAC FORM 0-10-5(OL A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

DATA REQUIRED FOR  
 QUANTITATIVE  
 AIR WEATHER ANALYSIS

## WEATHER CONDITIONS

STATION ALBUQUERQUE STATION NAME ALBUQUERQUE YEARS 1951-1952 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM ROUTINE OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	01-31												
FEB	02-28		2.1				2.1	3.2	6.2			10.4	40
MAR	03-31	4	5.3				5.3	2.3	4.7			7.2	203
APR	04-30		6.2				6.2		1.6			1.0	201
MAY	05-31		6.3				6.3						223
JUN	06-30		6.8				6.8						80
JUL	07-31												
AUG	08-31												
SEP	09-30												
OCT	10-31												
NOV	11-30												
DEC	12-31												
TOTALS			5.3				5.3	1.3	2.4			3.7	830

DATE: 11/01/84  
 BY: J. L. T. L.  
 FOR: 11/01/84

# WEATHER CONDITIONS

STATION: 11-01-84 STATION NAME: 11-01-84 YEARS: 11-01-84 MONTH: 11-01-84

AVERAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
11-01-84	01-05	4.4	13.3				13.3	4.4	4.4			8.9	42
	06-10	4.6	8.9			.5	3.4	2.1	4.2			6.3	171
	11-15	1.3	1.3				11.3	.6	.0			1.3	160
	16-20	4.7	4.8				4.8						147
	21-25		4.7				4.7						54
11-02-84													
11-03-84													
11-04-84													
11-05-84													
11-06-84													
11-07-84													
11-08-84													
11-09-84													
11-10-84													
11-11-84													
11-12-84													
TOTALS		2.2	8.6			.1	3.7	1.4	1.8			3.3	607

2

DATE PREPARED: 10-10-74  
 BY: [illegible]  
 AIR WEATHER STATION NO. [illegible]

# WEATHER CONDITIONS

STATION: [illegible] STATION NAME: [illegible] YEARS: [illegible] MONTH: [illegible]

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
11	11-01												
	11-03								15.4			15.4	25
	11-05	.9	2.8				2.8		11.2			11.2	100
	11-11		2.2				2.2		3.2			3.2	93
	11-14	1.1	1.1				1.1		1.1			1.1	27
	11-17												33
	11-18												
	11-19												
TOTALS		.4	1.2				1.2		9.2			6.2	345

2

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## WEATHER CONDITIONS

STATION 04-10-135 04-10-135 RUMI 52720 STATION NAME 00-74 YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURS OF OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
	00-01												
	01-02	4.5	4.5				4.5	1.5	2.5			3.5	100
	02-03	2.4	2.7				2.7	1.5	3.9			3.4	262
	03-04		1.4				1.4	1.4	2.7			4.1	221
	04-05		2.4				2.4		.5			.5	212
	05-06		.0				.0						122
	06-07												
	07-08												
	08-09												
	09-10												
	10-11												
	11-12												
	12-13												
	13-14												
	14-15												
	15-16												
	16-17												
	17-18												
	18-19												
	19-20												
	20-21												
	21-22												
	22-23												
	23-24												
TOTALS		1.0	2.4				2.4	.3	2.6			3.5	882

2

DATA REPORTING BASED ON  
USAFETAC  
WEATHER SERVICE

# WEATHER CONDITIONS

STATION 20-10-5(OL A) STATION NAME 20-10-5(OL A) YEARS 11-74 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
	01-01												
	02-01		4.5				4.5		5.0			3.6	17
	03-01	1.7	5.7				5.7	1.7	5.7			3.4	35
	04-01	1.5	7.8				7.8	2.5	4.4			5.0	214
	05-01	1.1	1.7				1.7		1.1			1.1	151
	06-01	1.5	3.1				3.1		1.0			1.0	9
	07-01												
	08-01												
	09-01												
	10-01												
	11-01												
	12-01												
TOTALS		1.1	4.8				4.8	.8	3.8			4.7	789

2

U.S. AIR FORCE  
 OFFICE OF  
 AIR AND SPACE

# WEATHER CONDITIONS

STATION NAME WHEELS RAMP SPILL 1-74 YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HURLEY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
	01-01												
	02-01		3.4				3.4	5.2	6.3			12.1	20
	03-01		5.4				5.4	10.0	6.4			17.2	200
	04-01		6.9				6.9	4.1	6.0			10.1	217
	05-01		3.2				3.2		1.5			1.5	13
	06-01		9	2.7			2.7		3.6			3.6	112
	07-01												
	08-01												
	09-01												
	10-01												
	11-01												
	12-01												
TOTALS		2	4.9				4.9	4.0	4.9			8.9	720



UNIT: 1000 FT. (304.8 M)  
 UNIT: 1000 FT. (304.8 M)  
 WEATHER SERVICE

# WEATHER CONDITIONS

STATION: SPAIN STATION NAME: SPAIN YEARS: 1974 MONTH: 1974

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
11	11-01												
	11-15		7.0				7.0	16.5	2.3			15.7	71
	11-30		9.5				9.5	23.5	4.1			17.6	221
	12-11		4.0				4.0	16.4	5.0			24.3	226
	12-24		8.6				8.6	2.2	7.2			9.4	139
	12-27		2.0				2.0		3.9			3.9	51
	12-28												
	12-29												
TOTALS			6.2				6.2	11.8	5.2			17.0	738

STATION	STATION NAME	YEARS	MONTH
	10-74		

### RELATIVE FREQUENCY OF OCCURRENCE OF CATION QUALITIES FOR VARIOUS OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	01-01												
	01-01		3.3	3.3			5.7	22.2				23.3	3
	02-01		2.2	2.2			4.3	36.1	1.4			35.2	33
	03-01		4.1				4.1	27.9	.7			28.6	147
	04-01		5.7				2.7	18.4	2.3			20.7	67
	05-01		3.3				3.3	6.7				5.7	20
	06-01												
	07-01												
	08-01												
	09-01												
	10-01												
	11-01												
	12-01												
TOTALS			3.7	1.1			4.3	22.2	.9			23.1	432

## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WBAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than  $\frac{5}{8}$  mile.

2

DATA FOR OBS. FOR MONTH  
 USAF ETAC  
 11. WEATHER SERVICE / JAC

XXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 XX **WEATHER CONDITIONS**  
 ATMOSPHERIC OBSERVATIONS

14 15 BASE AS CALLED ABOVE SPAT

77-75

LL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
 FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JAN	DAILY		25.0	1.1			25.0	32.6	5.7			35.9	62
FEB			23.9		2.3		25.0	9.1	2.5			22.7	38
MAR			27.3		2.7		28.2	3.0	10.4			18.2	110
APR		1.0	21.5		.0		21.5	3.7	13.7			20.6	117
MAY		5.1	21.9				21.9	4.2	5.4			12.5	40
JUN		11.4	19.7			1.3	19.7	3.4	7.9			10.5	73
JUL		4.5	9.1				9.1	2.2	11.2			15.2	44
AUG		9.0	6.1				8.1	2.0	11.1			12.1	49
SEP		6.5	17.2				17.2	4.2	12.9			15.1	93
OCT		1.2	27.4				27.4	15.5	15.7			26.2	64
NOV			21.1				21.1	28.9	16.7			34.4	90
DEC			18.5	1.5			18.5	35.4	7.7			40.0	65
TOTALS		6.7	20.1	.2	.5	.1	20.2	12.1	13.7			22.2	1044

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (\*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: **DATA NOT AVAILABLE** Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

12-1-64  
12-1-64  
12-1-64

# **SURFACE WINDS**

## **PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)**

STATION 12-1-64 STATION NAME 12-1-64 YEARS 12-1-64 MONTH 12-1-64  
CLASS 12-1-64 HOURS (L.S.T.) 12-1-64  
CONDITION 12-1-64

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NNE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ENE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
E	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ESE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SSE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
S	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
WSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
W	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
WNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VARBL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
CALM	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS 8341

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 5-8 STATION NAME STATION 5-8, RAINIER SPAC YEARS 70-71 MONTH ALL

CLASS 11

CONDITION

HOURE (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.	.	.	.	.	.	.	.	.	.	1.0	7.5
NNE	.	.	.	.	.	.	.	.	.	.	.	1.0	7.5
NE	.	.	.	.	.	.	.	.	.	.	.	1.0	7.5
ENE	.	.1	.	.	.	.	.	.	.	.	.	1.0	7.5
E	.	.3	.4	.6	.	.	.	.	.	.	.	1.0	7.5
ESE	.	.1	.4	.4	.4	.7	.	.	.	.	.	1.0	7.5
SE	.	.4	.7	.6	.	.	.	.	.	.	.	1.0	7.5
SSE	.	.4	.4	.1	.	.	.	.	.	.	.	1.0	7.5
S	.	.7	.1	.4	.	.	.	.	.	.	.	1.0	7.5
SSW	.	.6	.	.7	.	.	.	.	.	.	.	1.0	7.5
SW	.	.4	.	.2	.1	.	.	.	.	.	.	1.0	7.5
WSW	.	.3	.	.1	.	.	.	.	.	.	.	1.0	7.5
W	.	.3	.4	.	.	.	.	.	.	.	.	1.0	7.5
WNW	.	.2	.4	.4	.	.	.	.	.	.	.	1.0	7.5
NW	.	.0	.2	.7	.4	.	.	.	.	.	.	1.0	7.5
NNW	.	.2	.7	.6	.	.	.	.	.	.	.	1.0	7.5
VARBL	.	.3	.3	.4	.1	.	.	.	.	.	.	1.0	7.5
CALM												1.0	7.5
	1.0	12.3	15.0	26.0	7.3	1.7						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 274

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			0.2	0.0	0.2	0.2						0.4	2.0
NNE	0	0.1	0.1									0.2	1.3
NE	0	0.1										0.1	0.0
ENE	0	0.0											0.1
E	0	0.0	0.0	0.3	0.0							0.2	0.1
ESE	0	1.0	0.7	0.0	0.0	1.0						0.0	1.0
SE	0	0	1.0	1.0	0.0							0.0	1.1
SSE	0	1.0	0	0								0.7	0.1
S	0	0.0	0.0									0.4	0.3
SSW	0	0.0	0.0	0.0								1.0	0.7
SW	0	0.0	0.0	0.0								1.0	0.7
WSW	0	0.0	0.0	0.1								1.0	0.2
W	0	0.0	0.1	0.1								0.1	0.0
WNW	0	0.0	0.7	1.0	0.1							0.0	0.9
NW	0	0.0	1.0	0.0	1.0							0.0	1.0
NNW	0	1.0	0.0	0.0	0.0	1.0	0.0					0.0	1.0
VARBL												0.0	0.0
CALM												0.0	0.0
	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0

USAFETAC FORM 0-8.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64



PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.6	.1	1.5	1.5	1.5						7.7	12.1
NNE	.	.2	.2									.7	5.2
NE	.	.4		.4								.4	6.5
ENE	.	.2										.3	4.3
E	.1	1.5	1.1	1.1	.2							5.2	11.8
ESE	.	1.4	2.0	2.4	.7							7.4	9.6
SE	.	1.3	2.5	1.1	.4							6.7	8.3
SSE	.	.4	.2	.2								1.7	7.5
S	.1	.6	.2	.2								1.7	5.2
SSW	.	.4	.2	.2								1.1	5.4
SW	.1	.2	.4	.2		.1						2.5	7.5
WSW	.	.4	.4	.4								1.8	5.7
W	.1	1.1	.4	.4								2.1	4.8
WNW	.1	.2	1.1	1.3	.1	.1						4.2	9.9
NW	.3	2.3	2.7	11.9	2.	.2						23.5	11.7
NNW	.	1.1	2.1	6.1	3.5	2.3						18.7	14.5
VARBL	.1	.7		.2								1.5	3.9
CALM												12.0	
	10.3	13.8	19.5	28.9	9.3	1.8						100.0	9.3

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.4	.9	1.2	.6	.1						4.	12.2
NNE	.	.1										.7	2.0
NE		.1										.7	2.0
ENE	.	.1										.7	2.7
E	.	.4	.7									1.6	4.4
ESE	.	1.0	2.0	2.3	.8	.1						4.7	11.2
SE	.	1.5	2.6	2.1	.2	.1						7.0	6.5
SSE	.	.7	.7	.2	.1							1.7	7.5
S	.	.2	.9									1.2	4.3
SSW	.	.1										.9	2.4
SW	.	.2	.2									1.1	4.0
WSW	.	.7										1.5	3.1
W	.	.5	.4									2.3	3.0
WNW	.3	.9	1.0	1.0	.7							5.5	10.1
NW	1.1	3.0	6.2	14.0	3.0	.5						24.7	11.5
NNW	1.1	1.9	2.9	7.0	4.0	1.0	.2	.1				20.4	13.8
VARBL	.	.2			.1							.5	6.3
CALM												7.5	
	10.0	13.6	19.1	30.1	10.9	2.5	.2	.1				100.0	5.4

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 1000 STATION NAME 1000 YEARS 1000 MONTH 1000

CLASS 1000

CONDITION 1000

HOURS (LST) 1000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS 1000

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	DIRECTION
	CLASS		HOURS (L.S.T.)
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	2.2	.7	.0	.2	.3						7.1	7.1
NNE	.	.2	.3									1.7	1.7
NE	.	.3										2.7	2.7
ENE	.	.2										2.7	2.7
E	.2	.7	1.1	.5								4.7	4.7
ESE	.	.2	2.2	1.7	.2							7.4	7.4
SE	.	1.3	4.1	1.7								5.4	5.4
SSE	.	1.3	.7	.2								2.2	2.2
S	.	.7	.7	.2								2.2	2.2
SSW	.2	.2	.2	.2								1.7	1.7
SW	.	.2	.7	.2	.2							1.7	1.7
WSW	.2	.2	.2									2.0	2.0
W	.	4.1	.2	.2								4.7	4.7
WNW	.	1.3	2.1	2.2	.2	.2						10.4	10.4
NW	.2	4.3	2.2	0.2	1.0	.2						13.9	13.9
NNW	.2	1.1	.2	3.2	2.0	.2						12.9	12.9
VARBL	.	.7	.									2.0	2.0
CALM												13.0	13.0
	11.4	63.1	22.4	10.0	4.2	2.0						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 6.6

DATA SOURCE: 100-100  
 100-100  
 AIR WEATHER SERVICE

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 100-100 STATION NAME 100-100 YEARS 100-100 MONTH 100-100  
 CLASS ALL WEATHER  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	56	%	MEAN WIND SPEED
N	.0	1.4	.0	1.4	.0							5.0	7.1
NNE	.0	.0	.0	.0								1.0	1.0
NE	.0	.0										.0	2.7
ENE			.0									.0	1.0
E	.0	1.7	1.7	.9	.0							4.0	7.0
ESE	.0	1.2	2.0	1.7								5.0	5.3
SE	.0	1.4	2.0	1.7								5.0	5.0
SSE	.0	1.4	1.2									3.0	5.0
S	.0	1.4										2.0	4.0
SSW	.0	1.4										2.0	4.0
SW	.0	.0	.0									.0	4.7
WSW	.0		.0	.0	.0							2.0	3.0
W	1.4	1.4	.0	.0								3.0	5.0
WNW	1.4	1.4	3.0	1.4	1.7							9.0	9.0
NW	.0	3.0	3.0	3.0	1.7							23.0	10.0
NNW	.0	1.0	2.0	3.0	.0							10.0	10.0
VARBL	.0											3.0	1.0
CALM												13.0	
	13.0	10.0	24.0	22.0	5.0							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 340

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURS (L.S.T.)
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	1.0	.5	2.1	.1	.1						3.4	11.6
NNE	.											.1	0.1
NE		.2										.1	0.1
ENE		.1	.1	.1								.1	0.1
E	.	1.1	1.0	1.1	.1							2.4	3.4
ESE	.	1.6	2.3	3.7	.1							2.4	6.1
SE	.	1.9	3.6	2.7								2.6	2.7
SSE		1.0	1.4	.0	.1							1.1	2.3
S	.	.	.	.								2.1	2.3
SSW	.	.	.1									1.0	3.1
SW		.1	.1									1.0	3.2
WSW		.1	.1	.1								2.0	3.1
W	.	1.0	.1	.1								2.4	3.1
WNW	.1	1.0	1.1	1.4	.1							3.0	3.0
NW	.	2.1	4.1	0.1	.1							18.6	9.4
NNW	.	.1	4.1	0.2	1.1	.5						14.3	11.2
VARBL	.	.1										.6	2.4
CALM												13.7	
	11.0	10.1	20.7	23.1	2.1	.7						100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 382

U.S. AIR FORCE  
 FORM 8-5  
 1-64

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 70-10 STATION NAME ALL WINDS YEARS 70-79 MONTH 11  
 CLASS ALL WINDS HOURS (L.S.T.) 11  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.9	.0	1.1	1.0	.1						4.2	10.0
NNE	.1	.3	.4									1.8	3.5
NE	.1	.4										1.5	3.1
ENE	.1	.5										1.6	3.3
E	.1	.2	.1	.3								2.4	5.3
ESE	.1	1.4	4.3	3.3	.4							10.3	9.4
SE	.1	2.0	3.2	2.3								8.9	6.9
SSE	.1	.2	.2	.1								2.4	6.1
S	1.3	.6	.3	.4								3.5	5.3
SSW	.1	.2										1.1	3.3
SW	.1	.3	.1	.1								1.5	4.2
WSW	.1	.1	.1									1.8	3.1
W	.1	.8	.3									2.5	3.7
WNW	.1	1.6	1.3	.3								3.3	5.6
NW	1.1	1.8	2.7	0.8	2.0	.1						17.5	11.7
NNW	1.1	1.6	3.6	0.6	.4	.1						15.2	9.3
VARBL	.1											.1	2.0
CALM												19.4	
	10.2	15.1	22.0	21.3	3.6	.4						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 769

DATE: 10-10-77  
 STATION: SAE  
 NAME: SAE

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION: SAE STATION NAME: SAE YEARS: 7-14 MONTH: ALL  
 CLASS: ALL  
 CONDITION: ALL  
 HOURS (L.S.T.): ALL

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	2.0
NNE	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	3.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.0
ENE	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0
E	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	2.7
ESE	.0	1.4	2.2	2.0	1.3	.1	.0	.0	.0	.0	.0	8.0	11.2
SE	.0	2.3	4.1	4.0	.4	.1	.0	.0	.0	.0	.0	10.9	9.4
SSE	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	2.0	7.6
S	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	2.0	4.0
SSW	.1	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	3.4
SW	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	3.4
WSW	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	2.2	4.0
W	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	2.0	6.2
WNW	.0	.0	2.3	1.0	.4	.0	.1	.0	.0	.0	.0	6.0	9.4
NW	.0	.0	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	10.1	10.1
NNW	.0	1.0	2.0	3.7	1.0	.1	.0	.0	.0	.0	.0	9.0	10.3
VARBL	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.0
CALM												19.7	
	10.0	12.0	17.3	24.2	4.0	.0	.1	.0	.0	.0	.0	100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 776



U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
OFFICE OF MARINE WEATHER SERVICE

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

STATION 10100 STATION NAME 10100 YEARS 1950-1951 MONTH ALL  
CLASS 10100  
CONDITION 10100  
HOURS (L.S.T.) 10100

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VARBL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS 706

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**STATION**

STATION NAME

**YEARS**

MONTH

**CLASS**

MOUSE (L.S.T.)

**CONDITION**

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.2	.2	.2	.2	.2						2.2	4.2
NNE	.	.2										2.2	4.2
NE													
ENE	.	.2										.3	3.1
E	.	1.2										2.7	3.3
ESE	.	1.2	.2	2.2	.2							5.8	4.7
SE	.2	1.2	1.2	1.2	.2							5.2	7.5
SSE	.	.2		.2								1.2	4.5
S	.2	.2										.2	2.5
SSW	.2	.2		.2								2.1	3.7
SW	.2	.2	.2									1.2	2.8
WSW	.	.2	.2									1.2	3.5
W	.2	.2	.2	.2								4.2	3.2
WNW	.2	1.2	1.2	2.2								6.2	9.2
NW	.2	1.2	2.2	10.2	2.2	1.2	.2	.2				29.4	12.3
NNW	.2	.2	1.2	2.1	1.2	.2						10.2	11.2
VARBL				.2								.2	13.2
CALM												22.2	
	10.	11.2	14.1	24.1	7.2	2.1	.2	.2				100.2	7.2

**TOTAL NUMBER OF OBSERVATIONS**

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PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: FAIRFAX COUNTY, VIRGINIA YEARS: 1961-1962

CLASS: 1-10 CONDITION: 1-10

STATION: 1-10 SOUTH: 1-10

HOURS (L.S.T.): 1-10

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VARBL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	14.1	12.5	13.2	17.4	3.6	1.4						10.0	6.1

TOTAL NUMBER OF OBSERVATIONS 213

1. NAME OF STATION  
 2. LOCATION  
 3. DATE

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: STATION NAME YEARS: 71-  
 CLASS: 1.1  
 CONDITION:   
 MONTH: 1-12  
 HOURS (LST):

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEA. WIND SPEED
N	1.0	3.3		1.7		1.7						2.7	1.7
NNE													
NE													
ENE		1.7										1.7	1.7
E		1.7	3.3									5.0	1.7
ESE	1.0		1.7	3.3	1.7							6.7	1.7
SE	1.0		3.3	1.7								4.7	1.7
SSE		1.0										1.7	1.7
S												1.7	1.7
SSW			1.0	1.0								2.7	1.7
SW													
WSW			1.0	1.0								2.7	1.7
W	1.0	1.0										2.7	1.7
WNW		1.0		1.0								2.7	1.7
NW			3.3		1.7							5.0	1.7
NNW	1.0	1.0	3.3		1.7							11.7	1.7
VARBL													
CALM												23.7	
	11.7	11.0	20.3	11.7	6.7	1.7						10.0	5.2

TOTAL NUMBER OF OBSERVATIONS 50

1. STATION NAME  
2. DATE  
3. TIME OF DAY

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: 125-755 NORTON RANGE SPAIN YEARS: 1975 MONTH: 11  
CLASS: 125-755 HOURS (L.S.T.): 1200-1100  
CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.2	.5	1.3								4.0	7.8
NNE	.1											.1	1.1
NE													
ENE	.1											.1	2.0
E		.3	3.1	2.2								5.7	9.0
ESE	1.1	2.7	3.1	2.1	2.5	.4						13.1	10.1
SE	.1	.4	.1	2.2	.4							7.3	9.9
SSE	.1	.4										1.3	3.0
S	.1	.3		1.3								2.7	9.4
SSW	.1	.4	.4									1.3	5.4
SW	.1				.1							2.5	5.3
WSW	.1		.1									1.4	4.2
W	.1	1.3	.3	.4								3.5	6.3
WNW	.1	2.2	1.3	1.3	.4							7.3	9.8
NW	.1	.4	3.1	2.4	1.3							10.1	11.9
NNW	.1	.4	1.3		1.6	.4						4.0	12.1
VARBL	1.3		.4	.4								2.7	8.9
CALM												24.7	
	14.3	15.5	10.3	22.0	7.2	.9						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 223

DATA REQUIRED ON BACK OF  
TABLE 03AF  
AIR WEATHER INSTRUMENT

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 14015 STATION NAME CALES RANGUE SPAIN YEARS 70-71 MONTH 7-12-71  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3	1.5	1.3									5.4	1.5
NNE												1.2	1.5
NE	1.3											1.3	1.5
ENE													
E	.4	1.5		1.3	.5	.2						3.8	1.5
ESE	.4	3.8	3.0	3.8	2.5							12.5	1.2
SE		.8	1.3	.5	1.5							4.1	1.2
SSE	.4											1.0	1.5
S	.4	.8										1.2	1.5
SSW	.4	1.2		1.3								2.9	1.2
SW													
WSW	.4	.8										1.2	1.2
W	.4	1.1	.4	.8								2.7	1.2
WNW	1.2	.8	3.4	.8								5.2	7.7
NW		1.1	2.4	10.0	3.8							17.3	1.3
NNW		2.3	1.3	5.4	2.5	.8						12.3	2.2
VARBL	1.2		.4		.6							2.8	7.2
CALM												8.5	
	13.1	20.0	12.2	24.6	13.1	1.5						100.0	2.2

TOTAL NUMBER OF OBSERVATIONS 130

DATA RECEIVED FROM  
 13467054F  
 AIR WEATHER LOG 13467054F

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 13467054F STATION NAME 13467054F YEARS 77-78 MONTH 7  
 CLASS ALL WINDS HOURS (L.S.T.) 13467054F  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			2.1			2.1						4.2	15.5
NNE													
NE													
ENE	1.0											2.1	3.0
E			2.1	2.1								4.2	10.0
ESE	2.1		1.0	4.2	2.1	4.2						12.1	12.0
SE		1.0		2.1								4.2	7.5
SSE			2.1									2.1	4.0
S												2.1	3.0
SSW													
SW													
WSW	1.0											2.1	4.0
W				2.1								2.1	14.0
WNW	2.1	2.1	2.1									6.3	5.0
NW		4.2	0.4	0.4	4.2	2.1						23.4	12.5
NNW		2.1	2.1	8.3	2.1	2.1						17.0	13.1
VARBL													
CALM												10.4	
	10.0	10.0	21.3	25.0	8.5	10.6						100.0	10.1

TOTAL NUMBER OF OBSERVATIONS 47

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			1.0		1.0							5.0	11.0
NNE	1.0											2.0	2.0
NE													
ENE	2.0											2.0	2.0
E			1.0									3.0	3.0
ESE			1.0	2.0		1.0						5.0	15.0
SE			1.0									2.0	7.0
SSE		1.0		1.0								2.0	3.0
S	1.0											2.0	2.0
SSW													
SW	1.0	2.0										3.0	3.0
WSW	1.0											2.0	3.0
W		1.0										2.0	3.0
WNW	1.0			2.0								3.0	3.0
NW	2.0		1.0	3.0	1.0							7.0	10.0
NNW	1.0	2.0	1.0	1.0								5.0	7.0
VARBL													
CALM												15.0	
	11.0	13.0	21.0	14.0	3.0	2.0						100.0	7.4

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64



# **SURFACE WINDS**

## **PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)**

STATION NAME CONCORDIA AFB, TEXAS STATION NAME CONCORDIA AFB YEARS 1964-1965 MONTH 01-12-65  
 CLASS ALL  
 CONDITION   
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.2	.5	.1	1.2	.3						2.3	15.1
NNE			.2									1.2	7.1
NE	.1	.5										1.2	2.0
ENE	1.0											1.1	2.5
E	1.0	.3	1.0	.1	.5							3.9	7.5
ESE	1.0	1.0	1.9	1.2	1.0	1.5						14.8	11.2
SE	1.0		1.0	1.0								3.4	4.7
SSE	.1	.4										2.9	3.3
S		.5	.5									1.0	7.8
SSW	.1	.5	.5									1.6	4.7
SW													
WSW		.5										.5	5.0
W	1.0											1.6	2.7
WNW	.1		2.2	1.0								3.4	9.3
NW	1.0	1.9	8.7	7.6	1.5							24.8	9.3
NNW	.1	1.4	1.5	3.4	2.9	1.0						12.5	12.2
VARBL													
CALM												22.3	
	1.1	15.0	21.4	12.9	7.3	2.9						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 206

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE (AWC)

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ANCONAS DELS RANGE SPAIN YEARS: 71-75 MONTH: 1971-1975  
CLASS: ALL HOURS (L.S.T.): 1800-1800  
CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.4	.4	2.2	.4							3.2	11.3
NNE													
NE													
ENE		.4										.4	4.0
E		.4	.4	2.2	.4							4.2	11.3
ESE	.4	2.2	3.4	3.2	1.8	1.3						16.1	11.9
SE			.4	.2								1.2	11.0
SSE	1.3	1.4	1.3									4.4	5.6
S	1.2	.4										1.6	4.0
SSW	.2											.2	2.5
SW	.4	.4	.4									2.2	6.0
WSW	.4	.4	.4									1.2	4.7
W	.4	.9										1.3	4.0
WNW	1.2	.4	4.4	.9	.4							7.5	8.4
NW	.2	2.0	5.7	11.3	1.8							22.4	11.1
NNW	.4		2.2	4.0	4.5	1.3	.4					13.2	15.1
VARBL													
CALM												18.9	
	5.2	11.4	20.0	26.9	8.8	2.6	.4					100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 224

DATA PROCESSING BRANCH  
 AFAC/SAFE  
 AIR WEATHER SERVICE

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 11113 STATION NAME NAVY AIRFIELD RANGE W-41 YEARS 71-72 MONTH 12  
 CLASS ALL HOURS (L.S.T.) 1200-1400  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.1	.1	.1	.1	2.2						7.0	10.5
NNE		.1										.7	4.0
NE													
ENE		.1										.1	4.0
E		.1	.1	.1								2.0	5.0
ESE	.1	.1	.1	.1	.1	1.4						3.0	13.5
SE	.1	.1	.1	.1	.1							3.0	10.9
SSE	.1		.1									2.0	6.5
S	.1	.1	.1									2.0	4.3
SSW			.1	.1								1.4	10.0
SW		.1		.1								1.4	3.5
WSW	.1	.1										2.0	2.0
W	.1	.1	.1	.1								4.0	5.0
WNW		.1	.1	.1								2.0	9.5
NW		.1	.1	.1	.1							18.1	12.2
NNW	.1	.1	.1	11.0	7.9	.7						20.3	13.3
VARBL													
CALM												5.1	
	.1	.1	22.2	31.1	12.0	4.3						100.0	10.9

TOTAL NUMBER OF OBSERVATIONS 138

DATE: 10-10-64  
 TIME: 1200  
 AIR: 10000 FT. 10000 FT.

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: 10000 FT. 10000 FT. STATION NAME: 10000 FT. 10000 FT. YEARS: 10000 FT. 10000 FT. MONTH: 10000 FT. 10000 FT. HOURS (L.S.T.): 10000 FT. 10000 FT. CLASS: 10000 FT. 10000 FT. CONDITION: 10000 FT. 10000 FT.

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			3.0	5.0	5.0							7.0	12.0
NNE												2.0	2.0
NE													
ENE													
E			5.0	5.0								5.0	11.0
ESE			5.0	5.0	5.0							5.0	11.0
SE													
SSE													
S		5.0										5.0	5.0
SSW				5.0								5.0	12.0
SW				5.0								5.0	15.0
WSW	5.0			5.0								5.0	7.5
W	5.0											5.0	3.0
WNW		5.0		5.0								5.0	9.5
NW		5.0	15.0	15.0	5.0							27.0	11.2
NNW			5.0	5.0	5.0	5.0	5.0					25.0	15.3
VARBL													
CALM												7.0	
	5.0	5.0	29.4	35.0	11.0	5.0	5.0					100.0	11.0

TOTAL NUMBER OF OBSERVATIONS 51

STATION: 01010  
 21000 S.F.  
 21000 S.F.

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: 01010 STATION NAME: 21000 S.F. YEARS: 7-11  
 CLASS: CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	1.0		1.0	1.0							2.0	7.1
NNE													
NE													
ENE													
E	1.0		1.0									3.4	4.5
ESE	1.0	1.0	2.0	2.0	1.0							14.5	6.9
SE		2.0	1.0									5.5	5.7
SSE		1.0	1.0									3.0	7.0
S		1.0										2.0	4.0
SSW		1.0										1.0	5.0
SW			1.0									1.0	7.0
WSW				1.0								1.0	16.0
W	1.0											1.0	2.0
WNW			1.0									1.8	10.0
NW	1.0	7.3	7.0	2.0	1.0							27.3	9.1
NNW	1.0		1.0	5.0		1.0						10.0	12.3
VARBL													
CALM												14.5	
	1.0	21.0	21.0	21.0	5.5	1.0						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 25

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	MONTH
	LL. WATER	70-71	10-11-12
	CLASS		HOURS (L.S.T.)
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	0.4	0.4	1.3		0.4						3.3	6.3
NNE	0.0											0.0	3.1
NE	0.0	0.9		0.4								1.3	7.3
ENE	0.0	0.4										0.8	4.0
E	0.0	2.1	0.5	1.3								4.9	7.4
ESE	0.0	1.7	2.1	2.0	0.4							7.9	9.3
SE	0.0	3.0	1.3									5.0	5.1
SSE	0.0	0.4	0.4									1.2	3.3
S	0.0	0.4		0.4								1.2	4.3
SSW													
SW	0.0		0.4	0.4								1.3	3.3
WSW		0.4		0.4								0.9	3.0
W	0.0	0.9	0.4									3.4	3.3
WNW	0.0		1.7	0.4								2.8	3.5
NW	0.0	3.0	7.7	11.9	2.5	0.4						25.4	11.4
NNW	0.0	1.7	4.3	4.7	2.1	1.3						14.0	12.6
VARBL	0.0	1.3										2.1	3.4
CALM												20.4	
	10.3	15.0	19.6	29.6	5.1	2.4						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 235

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 10-15 STATION NAME CL. 10-15 YEARS 19-19 MONTH 10-19

CLASS CL. 10-15

CONDITION

HOURS (L.S.T.) 10-19

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.1	.4	1.8	.8							6.3	1.1
NNE		.7										1.1	1.1
NE		.4										.5	1.1
ENE		.4										.5	1.1
E		1.1	1.1	1.8								5.3	1.1
ESE		1.5	3.7	1.8	.4							7.4	1.1
SE		1.1	1.8	1.8	.4							5.3	1.1
SSE			1.1									1.8	1.1
S		.4										1.1	1.1
SSW												.5	1.1
SW		.4		.8								2.1	1.1
WSW		.7	.8	.8								2.6	1.1
W		1.5	.8	.8								3.0	1.1
WNW		.7	1.8	2.6	.4							5.3	1.1
NW		1.1	4.4	13.3	3.0							22.1	1.1
NNW		1.8	2.2	7.4	3.0	2.2						17.3	1.1
VARBL		.4										1.1	1.1
CALM												15.0	
	2.0	14.3	17.3	33.0	9.2	2.2						100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 271

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION WINDHOLLS LAKE RANGE SPAIN CLASS 7.5-7.5 YEARS 1970-1970 MONTH 1970-1970  
 STATION NAME WINDHOLLS LAKE RANGE SPAIN CLASS 7.5-7.5 MONTH 1970-1970  
 CLASS 7.5-7.5 MONTH 1970-1970  
 HOURS (L.S.T.) 1970-1970  
 CONDITION 7.5-7.5

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	0.0	0.0	1.7	1.0	0.9						10.0	13.0
NNE													
NE													
ENE													
E	1.7	0.5	1.7	1.2	1.2							6.0	9.9
ESE		1.0	1.2	1.0	1.2							7.0	11.2
SE			1.7	1.0	1.2							7.0	11.0
SSE			1.2	0.0								1.7	10.7
S		1.2		1.0								1.7	7.7
SSW		0.5	0.0	1.0								2.3	8.3
SW	1.2			0.0		0.0						1.7	12.7
WSW	1.2		1.2									2.3	6.0
W	0.0		0.0	1.0								2.3	9.3
WNW	1.2		1.2	1.7								5.0	8.7
NW	1.2	2.9	4.1	9.9	2.3							20.9	11.5
NNW	1.2	2.3	1.2	0.0	4.7	3.5						21.5	14.6
VARBL	1.2	1.2		0.0								2.3	5.2
CALM												4.0	
	1.2	11.0	22.1	31.4	15.1	7.0						100.0	11.2

TOTAL NUMBER OF OBSERVATIONS 172



2  
 121 100 5 40 100  
 74.7054  
 10.3 10.1 10.1 10.1

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 121 100 5 40 100 STATION NAME 121 100 5 40 100 YEARS 70-71, 72-74 MONTH 10-17  
 CLASS ALL - ALL  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	56	%	MEAN WIND SPEED
N		.0	.1	.1	.1	.1						1.5	1.5
NNE			1.0									1.0	1.0
NE													
ENE													
E	.1	1.9		1.0								4.0	3.0
ESE			1.0	1.0								4.0	3.0
SE	.1	.1	1.0	1.0								5.0	3.1
SSE		.1		.1								1.0	1.1
S	.1		1.0									2.0	3.0
SSW		.1	.1									1.0	3.0
SW	.1	.1	.1									2.0	3.0
WSW	.1											.0	3.0
W	.1	1.0	.1									4.0	3.2
WNW			.1	.1	.1	.1						5.0	3.3
NW			1.0	1.0	2.0	.1						6.0	3.3
NNW	.1	.1		.1	1.0	1.0						3.0	17.9
VARBL													
CALM												2.0	
	1.0	1.0	1.0	4.0	13.1	11.0						110.0	12.6

TOTAL NUMBER OF OBSERVATIONS 117

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURS (L.S.T.)
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE		2.0										2.0	2.0
NE													
ENE													
E	1.0											1.0	1.0
ESE			2.0	2.0	2.0							6.0	14.7
SE		2.0	10.0	4.0								16.0	7.1
SSE	1.0	2.0										3.0	1.0
S													
SSW													
SW													
WSW	1.0											1.0	1.0
W												2.0	2.0
WNW					2.0							2.0	21.0
NW	1.0		10.0	6.0	4.0							21.0	18.2
NNW	2.0		2.0	4.0	4.0	2.0						14.0	13.0
VARBL													
CALM												16.0	
	1.0	3.0	30.0	12.0	12.0	2.0						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 100

STATION NAME  
STATION NUMBER  
STATION TYPE

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
CLASS		HOURS (L.S.T.)	
CONDITION			

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
	10.0	12.1	23.3	21.0	4.7	.8						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 227

DATA PREPARED BY: J. J. J. J.  
 STATION: 541  
 AIR WEATHER STATION

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: 541 STATION NAME: BARCELONA, SPAIN YEARS: 7-10 MONTH: 1-12  
 CLASS: 1-12 HOURS: 1-24  
 CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N					1.0							1.0
NNE												
NE												
ENE												
E		.4	.4									0.8
ESE		1.0	3.0	3.0	.4							11.0
SE	.4	.4	3.0	2.0	.4	.4						1.0
SSE												
S												0.0
SSW	1.0	.4										3.0
SW												2.0
WSW		.4										1.0
W		2.0	.4									4.0
WNW			1.0	3.0	1.0							5.0
NW		1.0	5.0	10.0	5.0	.4						30.0
NNW		.7	1.0	0.5	4.0	.0	.4	.4				21.0
VARBL		.1										.4
CALM												10.0
	1.0	13.0	19.1	31.0	11.4	1.0	.4	.4				100.0

TOTAL NUMBER OF OBSERVATIONS 240

DATA PREPARED BY  
ETAC/USAF  
AIR RELATION SERVICE/ETAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 14-013 STATION NAME MEDINAS REALES RANGE SPAIN YEARS 70-71 MONTH 01  
CLASS ALL WINDS HOURS (L.S.T.) 1200-1400  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.2	2.5	1.7	1.9							5.2	12.6
NNE													
NE													
ENE	.											2.5	2.5
E	.1	.2	3.5									3.8	5.1
ESE		1.4	3.4	4.2	1.3							10.3	11.2
SE	.4	2.4	.5	3.4								6.1	9.9
SSE			3.1	.2								2.4	3.3
S		2.1	.5									1.4	5.1
SSW		1.2										1.2	4.3
SW		1.2										1.2	4.5
WSW	.1	.5										1.1	3.5
W	1.2	1.0	.2									2.4	4.2
WNW	.	.5	.5	1.1	.5							3.9	11.1
NW	1.2	2.2	5.3	14.2	1.9	.5						25.1	11.3
NNW	.5	.9	1.2	12.1	7.2	4.3	.5					27.5	15.0
VARBL		.5										.5	4.0
CALM												7.7	
	5.2	13.1	12.5	38.2	12.6	4.8	.5					100.0	11.1

TOTAL NUMBER OF OBSERVATIONS 207



# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NAME LAKE MEAD STATION NUMBER 7-73 YEARS 1961-1962

CLASS LAKE MEAD

CONDITION LAKE MEAD

BORTH LAKE MEAD

HOURS (L.S.T.) LAKE MEAD

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
	11.5	10.7	20.0	20.0	2.1							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 44

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

[illegible]

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64



DATA PROCESSING BRANCH  
 AFAC/USAF  
 AIR WEATHER SERVICE-MC

# **SURFACE WINDS**

## **PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)**

STATION WADSWORTH FIELD S RANGE SPAIN YEARS 70-75 MONTH ALL MONTHS  
 CLASS ALL WEATHER  
 CONDITION   
 HOURS (L.S.T.) 0000-1100

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.0	1.0	1.0	1.0	.0						4.0	12.5
NNE	.0	.5										1.0	7.0
NE													
ENE	.0	.5										1.0	4.0
E	.0		.0	.0								2.0	5.7
ESE	.0	1.0	3.0	5.0	1.0							12.0	10.3
SE		2.0	4.0	2.4								10.0	8.1
SSE			1.0	1.4								2.0	5.0
S		1.0	1.0	1.0	.0							4.0	10.0
SSW		.0										.0	5.0
SW	.0			.0								1.0	6.0
WSW		.0		1.4								1.0	11.0
W	.0	1.4	1.4									2.0	8.0
WNW	.0		1.0	2.0								4.0	11.0
NW	1.0	2.0	5.0	12.0	3.4							25.0	11.3
NNW	1.0	1.0	4.0	3.0	3.4	1.0						14.0	12.4
VARBL													
CALM												9.0	
	7.0	13.0	25.0	33.0	9.0	1.4						100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 2100

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

14020 STATION NAME: SAN MIGUEL DE LOS RIOS, SPAIN YEARS: 70-71 MONTH: 1200-1400  
CLASS: ALL WEATHER  
CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.5	.5	.5	.5	.5						7.5	12.0
NNE													
NE													
ENE		.5										.5	4.0
E		.5	1.0	1.0								4.0	3.0
ESE		.5	2.0	2.0	.4	.4						10.0	10.0
SE		.5	3.0	4.0	.4	.4	.4					7.4	12.4
SSE		.5	.5	.5								3.4	3.0
S		.5	1.0	.4	.4							5.4	7.0
SSW			.4	.4								.4	13.0
SW													
WSW		.5	.5	1.0								3.1	4.4
W		.5		.4								2.7	5.8
WNW		.5	1.0	.5	.4							4.0	8.5
NW	.5	1.0	4.0	5.0	1.0	.4						10.0	10.0
NNW	.5	.5	1.0	1.0	1.0	.9						11.1	13.0
VARBL	.5											.5	2.0
CALM												5.4	
	10.0	22.6	20.0	30.5	9.9	3.1	.4					100.0	10.0

TOTAL NUMBER OF OBSERVATIONS 223

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NAME: RAVENS CREEK RANGE SPAL. YEARS: 71-75 MONTH: 1971-1975  
 CLASS: ALL WEATHER  
 CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.3	1.1	2.3	1.1							2.3	9.9
NNE	1.1			1.1								2.3	1.1
NE	1.1											1.1	1.1
ENE				1.1								1.1	11.3
E		2.3	1.1	1.1								6.7	7.0
ESE		2.3	2.3	2.3	1.1							12.3	11.3
SE		2.3	1.1	2.3								8.7	11.3
SSE		1.1	2.3	2.3								3.4	11.3
S		1.1	2.3	2.3								9.9	11.3
SSW													
SW				1.1								2.3	7.0
WSW				2.3								2.3	12.3
W		1.1		2.3								3.4	9.7
WNW													
NW		2.3	2.3	4.5	1.1	1.1						16.2	10.5
NNW			2.3	6.0	6.0	1.1						19.2	14.9
VARBL													
CALM												2.3	
		11.8	23.9	46.9	10.2	2.3						100.0	10.8

TOTAL NUMBER OF OBSERVATIONS 58

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

1977-1978, 1979-1980, 1981-1982, 1983-1984, 1985-1986, 1987-1988, 1989-1990, 1991-1992, 1993-1994, 1995-1996, 1997-1998, 1999-2000, 2001-2002, 2003-2004, 2005-2006, 2007-2008, 2009-2010, 2011-2012, 2013-2014, 2015-2016, 2017-2018, 2019-2020, 2021-2022, 2023-2024, 2025-2026, 2027-2028, 2029-2030, 2031-2032, 2033-2034, 2035-2036, 2037-2038, 2039-2040, 2041-2042, 2043-2044, 2045-2046, 2047-2048, 2049-2050, 2051-2052, 2053-2054, 2055-2056, 2057-2058, 2059-2060, 2061-2062, 2063-2064, 2065-2066, 2067-2068, 2069-2070, 2071-2072, 2073-2074, 2075-2076, 2077-2078, 2079-2080, 2081-2082, 2083-2084, 2085-2086, 2087-2088, 2089-2090, 2091-2092, 2093-2094, 2095-2096, 2097-2098, 2099-2100, 2101-2102, 2103-2104, 2105-2106, 2107-2108, 2109-2110, 2111-2112, 2113-2114, 2115-2116, 2117-2118, 2119-2120, 2121-2122, 2123-2124, 2125-2126, 2127-2128, 2129-2130, 2131-2132, 2133-2134, 2135-2136, 2137-2138, 2139-2140, 2141-2142, 2143-2144, 2145-2146, 2147-2148, 2149-2150, 2151-2152, 2153-2154, 2155-2156, 2157-2158, 2159-2160, 2161-2162, 2163-2164, 2165-2166, 2167-2168, 2169-2170, 2171-2172, 2173-2174, 2175-2176, 2177-2178, 2179-2180, 2181-2182, 2183-2184, 2185-2186, 2187-2188, 2189-2190, 2191-2192, 2193-2194, 2195-2196, 2197-2198, 2199-2200, 2201-2202, 2203-2204, 2205-2206, 2207-2208, 2209-2210, 2211-2212, 2213-2214, 2215-2216, 2217-2218, 2219-2220, 2221-2222, 2223-2224, 2225-2226, 2227-2228, 2229-2230, 2231-2232, 2233-2234, 2235-2236, 2237-2238, 2239-2240, 2241-2242, 2243-2244, 2245-2246, 2247-2248, 2249-2250, 2251-2252, 2253-2254, 2255-2256, 2257-2258, 2259-2260, 2261-2262, 2263-2264, 2265-2266, 2267-2268, 2269-2270, 2271-2272, 2273-2274, 2275-2276, 2277-2278, 2279-2280, 2281-2282, 2283-2284, 2285-2286, 2287-2288, 2289-2290, 2291-2292, 2293-2294, 2295-2296, 2297-2298, 2299-2300, 2301-2302, 2303-2304, 2305-2306, 2307-2308, 2309-2310, 2311-2312, 2313-2314, 2315-2316, 2317-2318, 2319-2320, 2321-2322, 2323-2324, 2325-2326, 2327-2328, 2329-2330, 2331-2332, 2333-2334, 2335-2336, 2337-2338, 2339-2340, 2341-2342, 2343-2344, 2345-2346, 2347-2348, 2349-2350, 2351-2352, 2353-2354, 2355-2356, 2357-2358, 2359-2360, 2361-2362, 2363-2364, 2365-2366, 2367-2368, 2369-2370, 2371-2372, 2373-2374, 2375-2376, 2377-2378, 2379-2380, 2381-2382, 2383-2384, 2385-2386, 2387-2388, 2389-2390, 2391-2392, 2393-2394, 2395-2396, 2397-2398, 2399-2400, 2401-2402, 2403-2404, 2405-2406, 2407-2408, 2409-2410, 2411-2412, 2413-2414, 2415-2416, 2417-2418, 2419-2420, 2421-2422, 2423-2424, 2425-2426, 2427-2428, 2429-2430, 2431-2432, 2433-2434, 2435-2436, 2437-2438, 2439-2440, 2441-2442, 2443-2444, 2445-2446, 2447-2448, 2449-2450, 2451-2452, 2453-2454, 2455-2456, 2457-2458, 2459-2460, 2461-2462, 2463-2464, 2465-2466, 2467-2468, 2469-2470, 2471-2472, 2473-2474, 2475-2476, 2477-2478, 2479-2480, 2481-2482, 2483-2484, 2485-2486, 2487-2488, 2489-2490, 2491-2492, 2493-2494, 2495-2496, 2497-2498, 2499-2500, 2501-2502, 2503-2504, 2505-2506, 2507-2508, 2509-2510, 2511-2512, 2513-2514, 2515-2516, 2517-2518, 2519-2520, 2521-2522, 2523-2524, 2525-2526, 2527-2528, 2529-2530, 2531-2532, 2533-2534, 2535-2536, 2537-2538, 2539-2540, 2541-2542, 2543-2544, 2545-2546, 2547-2548, 2549-2550, 2551-2552, 2553-2554, 2555-2556, 2557-2558, 2559-2560, 2561-2562, 2563-2564, 2565-2566, 2567-2568, 2569-2570, 2571-2572, 2573-2574, 2575-2576, 2577-2578, 2579-2580, 2581-2582, 2583-2584, 2585-2586, 2587-2588, 2589-2590, 2591-2592, 2593-2594, 2595-2596, 2597-2598, 2599-2600, 2601-2602, 2603-2604, 2605-2606, 2607-2608, 2609-2610, 2611-2612, 2613-2614, 2615-2616, 2617-2618, 2619-2620, 2621-2622, 2623-2624, 2625-2626, 2627-2628, 2629-2630, 2631-2632, 2633-2634, 2635-2636, 2637-2638, 2639-2640, 2641-2642, 2643-2644, 2645-2646, 2647-2648, 2649-2650, 2651-2652, 2653-2654, 2655-2656, 2657-2658, 2659-2660, 2661-2662, 2663-2664, 2665-2666, 2667-2668, 2669-2670, 2671-2672, 2673-2674, 2675-2676, 2677-2678, 2679-2680, 2681-2682, 2683-2684, 2685-2686, 2687-2688, 2689-2690, 2691-2692, 2693-2694, 2695-2696, 2697-2698, 2699-2700, 2701-2702, 2703-2704, 2705-2706, 2707-2708, 2709-2710, 2711-2712, 2713-2714, 2715-2716, 2717-2718, 2719-2720, 27

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURS (L.S.T.)
	CONDITION		

[illegible]

TOTAL NUMBER OF OBSERVATIONS 45

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NAME STATION NAME YEARS 70-71

CLASS 10-15

CONDITION

MONTH 10-11

HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.1										5.3	3.4
NNE													
NE													
ENE		.5										1.3	2.0
E	1.1		.5									1.6	4.0
ESE	.5	1.2	1.0	.5								4.2	6.1
SE	1.1	1.1	1.2	.5								7.1	5.4
SSE	.5	1.1	.5	.5								2.6	6.6
S	.5	1.6	.5									2.6	3.4
SSW	1.1											1.1	2.0
SW	.5											1.1	2.5
WSW	1.1	1.1										2.2	4.3
W	.5	.5	.5									5.3	3.4
WNW	.5	2.1	2.3	4.2	.5							14.2	11.4
NW	.5	2.2	6.2	5.8	.5							16.3	9.3
NNW	1.1	2.1	1.1	1.6	2.1	.5						8.1	9.9
VARBL	3.2	.5										3.7	2.1
CALM												18.4	
	24.4	22.5	20.5	13.2	2.6	.5						100.7	5.5

TOTAL NUMBER OF OBSERVATIONS 140

2

DATA REPORT NO. 0040  
 1 JAN 1964  
 1000 HOURS

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME STATION NAME YEARS 7-14 MONTH 1-12  
 CLASS ALL  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	3.4
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	4.4
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3
ESE	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	5.0	7.0
SE	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	5.0	6.7
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	6.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	2.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	3.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	5.3
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	2.0
W	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	6.3
WNW	.0	.0	4.4	3.0	.0	.0	.0	.0	.0	.0	.0	11.3	8.7
NW	.0	.0	6.0	7.0	.0	.0	.0	.0	.0	.0	.0	23.8	6.9
NNW	.0	.0	4.4	1.0	1.0	1.0	.0	.0	.0	.0	.0	13.8	10.0
VARBL	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.4	.0
	15.0	21.0	25.0	10.0	4.4	2.0	.0	.0	.0	.0	.0	100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 100

DATA RECORDS FOR WIND  
 STATION NAME  
 DATE OF OBSERVATION

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 14003 STATION NAME ADAMS VALLES RANG STATION YEARS 70-76 MONTH 12-1960 HOURS (L.S.T.)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.7	1.0	2.0		.7						4.2	11.5
NNE		1.0										2.7	8.1
NE	.7	1.0										2.7	8.1
ENE													
E		1.4	2.7	.7								4.8	4.1
ESE	.7	1.4	2.7	2.0	.7							8.8	9.5
SE	.7	1.4	2.7	2.0								10.2	7.7
SSE		1.4	.7									2.7	6.0
S			2.7	.7								2.7	11.1
SSW			.7	.7								1.4	11.2
SW			.7	.7								1.4	12.0
WSW		.7	.7									1.4	5.5
W	.7	1.4	2.7	1.4								4.8	9.9
WNW	.7	.7	.7	2.7	.7	.7						9.8	9.2
NW	2.7	4.1	3.4	4.8	2.0							15.0	10.1
NNW	.7	2.7	2.7	6.8	1.4	.7						15.0	11.1
VARBL	2.7	2.0	.7									4.8	4.3
CALM												7.1	
	10.2	27.2	22.8	24.2	4.8	2.0						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 147

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	LL		
	CLASS		HOURS (L S Y)
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	Σ	MEAN WIND SPEED
N		2.1	1.1	2.1		4.2						9.6	10.6
NNE													
NE													
ENE	1.0											1.0	3.0
E	3.0		3.0	3.1								9.1	7.7
ESE			1.0	0.1								1.1	12.8
SE	1.0											1.0	2.0
SSE			1.0	3.1								4.1	13.0
S		1.0		1.0								2.0	5.0
SSW	1.0											1.0	2.0
SW			1.0		1.0							2.0	14.0
WSW		1.0										1.0	4.0
W	1.0			1.0								2.0	7.0
WNW				1.0								1.0	10.0
NW		4.7	6.0	7.8	1.0							19.5	9.9
NNW		4.0	1.1	7.0	0.1	1.0						12.2	13.3
VARBL			1.0									1.0	10.0
CALM												1.0	
	10.0	11.1	20.1	31.5	9.4	5.3						100.0	10.9

TOTAL NUMBER OF OBSERVATIONS 64



# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	MONTH
CLASS		HOURS (L.S.T.)	
CONDITION			

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
	2.0	23.1	19.2	1.7	3.5							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 25

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

<u>10-10</u>	<u>WHEELS AS TO LBS PAIR SPARE</u>	<u>71-72</u>	<u>1911</u>
STATION	STATION NAME	YEARS	MONTH
	<u>ALL AT TIGHT</u>		<u>10 - 10</u>
	<u>CLASS</u>		<u>HOURS (L.S.T.)</u>
	<u>CONDITION</u>		

[illegible]

TOTAL NUMBER OF OBSERVATIONS	1,7
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DATE: 10/10/64  
 BY: J. S. H.  
 AIR BASE: 10/10/64

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: 10/10/64 STATION NAME: 70-11 YEARS: MONTH: 10-1964  
 CLASS: 10-1964  
 CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.2		1.1								4.0	6.1
NNE		1.1	1.1									2.0	7.0
NE												1.0	3.0
ENE													
E		1.1		1.1								2.0	8.5
ESE		1.1	1.1	2.0								3.0	3.0
SE		1.1	1.1	3.0								5.0	10.0
SSE			1.1									2.0	5.1
S		2.2										3.0	4.7
SSW		1.1										2.0	4.7
SW		1.1										1.1	5.0
WSW				1.1	1.1							2.0	11.0
W		1.1		1.1								2.0	6.3
WNW		2.2	1.1	2.0	2.0							15.1	9.0
NW		4.0	2.0	2.0	2.0							21.5	10.3
NNW		2.0	4.0	2.0	2.0							15.1	11.0
VARBL	1.1											3.0	1.7
CALM												7.0	
	1.1	2.0	2.0	2.0	1.1							100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 7.0

1000 1000 1000 1000  
1000 1000 1000 1000  
1000 1000 1000 1000

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1000 1000 1000 1000 STATION NAME 1000 1000 1000 1000 YEARS 1000 1000 1000 1000 MONTH 1000 1000 1000 1000  
CLASS 1000 1000 1000 1000  
CONDITION 1000 1000 1000 1000  
HOURS (L.S.T.) 1000 1000 1000 1000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	56	%	MEAN WIND SPEED
N	1.1	1.1	2.0	2.0								8.1	2.1
NNE	1.1											1.1	2.1
NE		1.1										1.1	4.1
ENE			1.1									1.1	1.1
E		1.1	1.1									2.1	1.1
ESE	1.1	1.1	2.0	1.1								5.1	7.1
SE		1.1	1.1	1.1								3.1	1.1
SSE		1.1	1.1									2.1	1.1
S		1.1										2.1	1.1
SSW		1.1										1.1	1.1
SW			1.1									1.1	7.1
WSW													
W		1.1	2.0									4.1	1.1
WNW	1.1	1.1	1.1		4.0							7.1	12.3
NW		1.1	1.1	12.0	1.1							15.3	11.5
NNW		1.1		1.1	1.1							5.7	11.8
VARBL												5.7	1.8
CALM												3.1	
	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	100.0	1.1

TOTAL NUMBER OF OBSERVATIONS 1000

STATION NO. 005106 B-40  
 NAME  
 LOCATION

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NO. 005106 B-40 STATION NAME YEARS MONTH 1-17  
 CLASS ALL WEATHER  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			3.0	3.0	3.0							9.0	12.7
NNE				3.0								3.0	10.0
NE		3.0										3.0	4.0
ENE													
E		3.0	3.0	6.1	3.0							15.0	11.4
ESE		3.0	3.0									6.0	7.8
SE				3.0								3.0	10.0
SSE													
S		3.0										3.0	6.0
SSW													
SW	3.0											3.0	2.0
WSW	3.0		3.0	3.0								12.0	5.8
W	3.0	3.0										6.0	4.0
WNW													
NW		3.0	3.0	15.2	3.0							24.2	12.1
NNW	3.0	3.0		6.1								12.0	9.5
VARBL													
CALM													
	15.0	21.2	15.2	39.4	9.1							100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 13

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURS (L.S.T.)
	CONDITION		

[illegible]

TOTAL NUMBER OF OBSERVATIONS 50

1. NAME OF STATION  
2. LOCATION  
3. DATE OF OBSERVATION

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 10-10 STATION NAME 10-10 YEARS 10-10 MONTH 10-10  
CLASS 10-10 HOURS (LST) 10-10  
CONDITION 10-10

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
	10.3	19.8	22.5	19.1								100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 262

DATA PROCESSING BRANCH  
 FTALC/USAF  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 11010 STATION NAME SAN JUAN DE LOS RIOS RANGE SPAIN YEARS 70-74 MONTH NORTH  
 CLASS ALL WEATHER HOURS (L.S.T.) 0900-1100  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0				3.4							1.8	13.0
NNE	.0											.5	7.0
NE													
ENE													
E	.0	1.0										2.3	3.5
ESE		2.7	6.4	2.3								11.4	8.8
SE	1.4	1.8	4.1	3.0								10.9	9.0
SSE		1.4	.0	.0								2.2	7.4
S	.0	.9	.0	.0								2.2	6.4
SSW	1.0	.5										1.8	2.0
SW	.0	.5										.9	3.0
WSW	1.0	.5										2.3	2.4
W	1.0	.5										2.3	3.0
WNW	.0	2.3	1.4	7.7	.5							7.7	9.2
NW	1.0	2.7	5.0	10.0								19.5	10.1
NNW	.0	.9	7.7	8.2	.5							18.7	10.3
VARBL	1.0											1.4	1.7
CALM												14.5	
	13.2	16.4	25.5	20.2	4.3							100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 220



DATA ENCLOSURE BRANCH  
STATION NAME  
AIR WEATHER SERVICE

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

14 FEB STATION 14 FEB 1974 70-74 YEARS MONTH 12 1200-1400 HOURS (L.S.T.)

STATION NAME CLASS CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.4	.5	2.0	.5							5.1	10.5
NNE	.5											.5	3.0
NE													
ENE		2.4										1.0	5.0
E		2.4	2.4	.5								5.2	7.2
ESE		2.0	2.1	9.4	.5							7.0	11.1
SE		2.0	1.9	8.3								4.0	11.1
SSE		1.7	2.4	1.4	.5							6.1	8.9
S	.5	1.4	1.9	.5								4.7	6.6
SSW		.5										.5	4.0
SW	.5		.5									1.9	4.5
WSW	.5		.5	.5								2.4	8.8
W	.5	1.4	1.4									3.3	6.0
WNW		1.4	1.4	2.4								5.2	9.6
NW	.5	3.3	3.0	5.2	.5							13.2	9.7
NNW	.5	.5	4.6	9.0	1.4	.5						17.0	12.4
VARBL	.5	.5										.5	3.5
CALM												4.7	
	5.6	19.8	27.6	38.2	3.3	.9						100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 212

1071 FLEET J. 10 BRANCH  
 2101/150F  
 AIR WEATHER 11/10/74

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 1071 FLEET J. 10 BRANCH STATION NAME 2101/150F YEARS 71-74 MONTH 11-1700  
 CLASS ALL WEATHER HOUR (L.S.T.) 1500-1700  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.0	4.0	7.4	.0	1.0						13.4	17.3
NNE													
NE		1.0										1.6	4.8
ENE			.5	.0								1.6	7.2
E	.5		3.3	0.0	.0							11.7	11.7
ESE		2.5	0.0	4.0								13.0	10.4
SE			0.0	1.0								4.0	10.4
SSE			.5	.0								2.3	9.3
S	1.0		.0									2.5	4.3
SSW			.0									.0	7.0
SW	.0											.0	3.0
WSW		2.5										2.5	5.3
W	1.0											1.6	2.5
WNW		1.0	.0	.0								3.3	7.3
NW	.0	2.5	.0	4.0	2.5							12.3	10.8
NNW	.0	.8	4.1	9.0	4.1	1.0						21.3	13.4
VARBL													
CALM												3.3	
	1.0	13.1	21.0	37.7	8.2	3.3						100.0	10.5

TOTAL NUMBER OF OBSERVATIONS 122

U.S. Navy  
 FORM 0-8-5 (OL A)  
 JUL 64

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURS (L.S.T.)
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
	16.4	22.4	12.4	10.4	1.0							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 07

STATION NAME  
STATION NUMBER  
STATION CLASS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: LAKE CHARLES, LA YEARS: 70-74 MONTH: 7-12  
 CLASS: ALL STATION HOURS (L.S.T.): 0000-2300  
 CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.2	.4									1.0	5.7
NNE												.4	2.7
NE													
ENE													
E	.1											2.1	2.0
ESE	.1	1.3	2.0	1.1								7.0	7.7
SE	.1	3.3	4.0	1.2								10.5	5.3
SSE	.1	.8	.6									2.5	5.2
S	.1	.4	.1									3.8	4.0
SSW		.4										.4	5.0
SW	2.1			.6								7.0	3.9
WSW	1.1	.4										2.1	2.0
W	1.1	.4										2.1	2.7
WNW	.3	1.3	1.1	.4								5.0	5.3
NW	.1	1.2	2.5	2.0	1.3							15.3	9.2
NNW	.1	1.2	3.3	4.6								13.8	7.8
VARBL													
CALM												27.6	
	24.0	17.6	20.1	12.6	1.3							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 239

DATA FROM IS 10-10-10  
 BTAL/01 F  
 AIR WEATHER SERVICE

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 10-10-10 STATION NAME 10-10-10 YEARS 70-74 MONTH 10-10-10  
 CLASS 10-10-10 HOURS (L.S.T.) 10-10-10  
 CONDITION 10-10-10

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.5	.5	.5		.5						2.5	10.4
NNE	.5		.5									2.0	2.3
NE	.5											2.0	2.3
ENE		.5										.5	4.0
E		1.0										1.5	4.7
ESE	.5	1.0	1.4	2.5								11.3	8.9
SE	.5	2.0	2.5	2.5								9.4	1.9
SSE	.5	2.0										2.5	4.2
S	.5			.5								1.5	5.7
SSW	.5	1.0										2.5	3.5
SW	.5	.5										1.0	2.0
WSW	.5	.5	.5									2.0	4.0
W	.5	1.0	.5									2.0	4.0
WNW	.5	1.0	2.5	.5								5.9	6.3
NW	.5	1.0	6.4	10.5	1.5	.5						21.1	11.2
NNW	.5	2.5	4.4	4.5								12.7	9.0
VARBL	.5											.5	2.0
CALM												19.6	
	10.7	14.7	24.5	22.1	1.5	1.0						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 204

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 14-100 STATION NAME WALLABEE ISLAND REEF STATION YEARS 7-14 MONTH 1-12  
 CLASS 1-12  
 CONDITION   
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.2	1.1	1.1	2.4	0.0							2.8	7.1
NNE		0.0	0.0									0.0	0.0
NE	0.0	0.0										0.0	0.0
ENE	0.0											0.0	0.0
E	0.4	0.0	1.1									2.5	4.8
ESE	0.0		4.4	7.2								2.0	11.5
SE		1.1	0.1	3.3								0.5	10.2
SSE	0.0		1.1									1.7	6.7
S	0.0	0.0	1.1	1.1								4.4	4.8
SSW		0.0										0.0	0.0
SW		0.0										0.0	0.0
WSW	0.4	0.0										1.7	3.0
W	0.0	0.0										0.0	0.0
WNW	0.0	0.0	1.1									5.0	4.8
NW	0.0	0.0	6.0	7.7	1.6							13.8	11.0
NNW	0.0	1.1	0.4	11.0	1.7	0.0						0.0	12.0
VARBL													
CALM												3.2	
	12.0	11.0	24.7	33.1	5.3	0.0						100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 101

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

[illegible]**TOTAL NUMBER OF OBSERVATIONS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

[illegible]

TOTAL NUMBER OF OBSERVATIONS



PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	56	%	MEAN WIND SPEED
N	.	0.7	0.1									1.0	4.0
NNE	.											0.1	2.0
NE	.											0.1	2.0
ENE	.	0.5										1.0	0.0
E	.	0.5	0.1									2.0	4.0
ESE		0.5	1.0	0.0		0.0						7.0	1.0
SE	0.0	0.0	1.0	4.0	0.0	0.0						12.0	2.0
SSE	0.0	0.0										7.0	3.0
S	0.0	0.0										4.0	2.0
SSW	.	0.1										2.0	2.0
SW	.											0.0	1.0
WSW	.											1.0	2.0
W	.	0.0										2.0	2.0
WNW	.	0.0	0.1	0.0								4.0	6.0
NW	.	0.0	10.0	0.4								1.0	3.0
NNW	.	0.0	1.0	2.0	0.0							5.0	2.0
VARBL													
CALM												7.0	
	2.0	10.0	10.1	16.0	1.0	1.0						10.0	5.0

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64

STATION NAME  
STATION NUMBER  
STATION TYPE

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS (L.S.T.) \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NAME STATION NAME YEARS 1950-1951

CLASS ALL DATA

CONDITION

MONTH 1950-1951

HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VARBL	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	1.0	1.0	2.0	2.0	1.0	.0	.0	.0	.0	.0	.0	10.0	6.5

TOTAL NUMBER OF OBSERVATIONS 100

DATA PROCESSING ROOM  
 AFM 74-511  
 AIR WEATHER INFORMATION

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION AFM 74-511 STATION NAME AFM 74-511 YEARS 70-72-74 MONTH 1  
 CLASS 11-17-19 HOURS (L.S.T.) 17-19  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.		1.0									1.0	2.0
NNE	.											1.0	2.0
NE	.											1.0	2.0
ENE													
E													
ESE	.		3.0	2.0	2.0							9.0	12.0
SE		2.0	4.0	1.0	1.0							8.0	11.0
SSE		2.0		1.0	1.0							4.0	12.0
S		2.0										4.0	7.0
SSW	.	2.0										4.0	4.0
SW		1.0										1.0	4.0
WSW	.			1.0								1.0	4.0
W		2.0		1.0	1.0							4.0	12.0
WNW	.	2.0	2.0	2.0	1.0		1.0					8.0	11.0
NW		2.0	2.0	14.0	1.0							22.0	12.0
NNW		2.0	2.0	3.0	2.0	1.0						10.0	13.0
VARBL												0.0	
CALM												0.0	
	1.0	1.0	2.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	100.0	10.0

TOTAL NUMBER OF OBSERVATIONS 112



PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	IV 56	%	MEAN WIND SPEED
N	.7		.2	.2								3.5	1.4
NNE	.1	.7	.1									2.3	4.4
NE	.1											.2	1.1
ENE	.1		.1									1.7	4.3
E	1.1	.5		.2	.5							2.2	7.0
ESE	1.1	.9	1.1	1.3	.5							7.7	8.4
SE	.1	.7	1.1	1.4								5.0	7.4
SSE	1.1	.4	1.4	.1								5.3	5.7
S	.1											1.8	2.5
SSW	.1											.5	2.0
SW	1.1											1.2	2.3
WSW	.1		.1									3.2	3.5
W	.1	.7	.1									2.1	4.6
WNW	1.1		1.1	.2	1.0							4.8	4.7
NW	.1	1.1	.7	2.2	.1							13.5	11.0
NNW	1.1	1.1	1.1	2.4	.5	.5						11.8	10.3
VARBL			.1	.1								1.4	9.7
CALM												21.3	
	24.4	1.0	1.1	21.7	4.1	.5						100.0	6.4

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64

U.S. AIR FORCE  
 FORM 0-8-5 (OL A)  
 1 JUL 64

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION 24-13 STATION NAME WINDY HILL, WINDY HILL, WINDY HILL YEARS 7-14 MONTH 7-14  
 CLASS WINDY HILL, WINDY HILL, WINDY HILL HOURS (L.S.T.) 0000-2400  
 CONDITION WINDY HILL, WINDY HILL, WINDY HILL

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	.4		.5	.4							2.4	6.6
NNE	.0	.4										1.2	2.7
NE	.0	.4										.8	4.3
ENE	.0	.4										.4	1.0
E	.0		.3	.4								2.7	7.3
ESE	.0	.2	1.2	3.0	.5							8.8	9.0
SE		.2	1.3	1.0								5.4	5.6
SSE		.1	.4	.4								1.6	3.1
S	.0	.4										3.1	3.0
SSW	.0											1.3	2.3
SW	.0	.2										2.7	3.2
WSW	.0	.4										1.3	3.0
W	.3	.2										2.2	3.2
WNW	.2		2.2	2.0								5.8	10.0
NW	.4	.2	6.0	2.3	2.1							19.6	11.0
NNW	.0	.8	3.2	7.5	2.2	.4						14.5	12.8
VARBL													
CALM												24.3	
	11.7	11.4	12.5	20.5	6.2	.4						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 225

10-10-65  
 10-10-65  
 10-10-65

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 10-10-65 STATION NAME FAIRFAXS GUNNERS RANGE STATION YEARS 70-74 MONTH 1-12-14  
 CLASS ALL WEATHER  
 CONDITION   
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	56	%	MEAN WIND SPEED
N			1.4	2.0	2.7	1.4						8.6	10.8
NNE												.7	3.0
NE													
ENE		.7										.7	4.0
E	.7	.7			1.4							2.8	11.3
ESE		.7	2.9	3.0								7.2	11.0
SE			3.0	3.0								7.2	13.5
SSE			.7	1.4								2.2	10.3
S	2.2	2.9		.7	.7							6.5	6.2
SSW	.7			.7								1.4	7.5
SW	.7	.7	.7									3.6	3.4
WSW	1.4	2.2										3.6	3.8
W	.7		.7									2.5	3.5
WNW		.7		2.2								2.8	10.3
NW		.7	4.3	6.6	4.3	2.2						20.1	13.8
NNW	.7		.7	10.8	5.8	.7						19.4	14.4
VARBL													
CALM												10.1	
	11.0	2.4	15.1	34.2	15.1	4.3						100.0	10.2

TOTAL NUMBER OF OBSERVATIONS 149



# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION ATLANTIC OCEAN STATION YEARS 7-11 MONTH 7-11  
STATION NAME ATLANTIC OCEAN STATION CLASS 1  
CONDITION 1

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			2.0									2.0	2.0
NNE													
NE													
ENE													
E				2.0								2.0	13.0
ESE	2.0	2.0	2.0	2.0		2.0						12.0	2.7
SE		2.0	2.0									4.0	2.3
SSE				2.0								2.0	12.0
S		2.0										2.0	5.0
SSW													
SW	2.0											2.0	2.0
WSW	1.0											1.0	2.0
W													
WNW	2.0	2.0										4.0	3.5
NW		2.0	2.0	19.0	3.0	2.0						26.0	14.1
NNW			2.0	11.0	5.9	2.0						21.0	15.3
VARBL													
CALM												7.8	
	9.0	11.0	10.7	32.0	7.9	2.0						100.0	10.4

TOTAL NUMBER OF OBSERVATIONS 51

DATA CONTAINED HEREIN IS UNCLASSIFIED  
 DATE 07-10-2017 BY 60322  
 AIR FORCE/NAVY/ARMY/AFMPC

# **SURFACE WINDS**

## **PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)**

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURLS (L.S.T.)
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0											1.0	2.0
NNE													
NE													
ENE													
E													
ESE	1.0	3.0		3.0								1.0	2.0
SE	1.0		1.0	3.0								3.0	7.0
SSE													
S													
SSW													
SW													
WSW													
W	1.0											1.0	2.0
WNW													
NW		3.0		10.0	3.0	3.0						20.0	15.5
NNW	1.0	3.0	3.0	3.0								16.0	7.4
VARBL												43.0	
CALM													
	21.0	11.0	10.0	20.0	3.0	3.0						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 30

2

STATION NAME  
 DATE  
 TIME

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME LEO STATION YEARS 70-71 MONTH ALL  
 CLASS ALL  
 CONDITION ALL  
 HOURS (L.S.T.) 0000-0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												.7	1.0
NNE		.2										1.2	5.5
NE													
ENE													
E	.1	.7										5.0	2.2
ESE	.1	.7	1.4	2.2								5.0	2.3
SE		2.2	2.2	2.2								7.2	4.4
SSE	.1	.7										2.2	3.3
S												.7	2.1
SSW		.7										.7	5.0
SW		.1										.7	4.0
WSW			.1									.7	7.1
W	.1	.4		.1								5.1	8.3
WNW	.1	.4		2.2								5.1	6.3
NW	1.4	1.2	1.4	6.7	3.0	1.4	.7					31.2	12.0
NNW	2.2	.1		1.4	1.4							5.0	9.5
VARBL													
CALM												25.4	
	15.1	14.2	11.4	17.4	5.1	1.4	.7					100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 155

UNITED STATES NAVY  
 PACIFIC FLEET  
 AIRCRAFT CARRIER GROUP

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION USS LST-1165 STATION NAME USS LST-1165 YEARS 1964-1965 MONTH 11  
 CLASS 1165 HOURS (L.S.T.) 1165  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	1.6	.1	.								4.1	2.5
NNE	.	.5										1.7	2.3
NE													
ENE	.	.1										1.6	2.4
E		.1										2.7	4.7
ESE	.	.8		2.7								3.6	5.1
SE	3.1	.7	.1	1.7	.7							6.3	5.9
SSE	.			.								2.7	6.6
S		.7										1.5	3.2
SSW	.											3.6	2.6
SW	1.1											1.4	2.5
WSW	.7											.	2.0
W	.	.4	.7									3.7	4.4
WNW		.7	.7	1.0								3.7	11.1
NW	6.4	.7	1.1	17.2	2.4	.7						24.5	14.0
NNW	2.1	.7	2.0	4.1	1.4							10.7	13.2
VARBL				.7								.7	13.2
CALM												24.5	
	1.7	11.0	12.9	25.1	7.5	.7						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 117

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 1 STATION NAME 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. YEARS 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. MONTH 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. HOURS (L.S.T.) 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. CLASS 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. CONDITION 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.1			0.1	1.1	1.1						4.0	1.5.3
NNE													
NE													
ENE													
E	0.1	1.2										5.7	3.0
ESE				0.1	1.1							1.0	4.7
SE		1.1	1.1									1.0	4.0
SSE		1.1										1.0	4.0
S		1.1										1.0	4.0
SSW												2.4	2.8
SW	0.1		0.1									2.4	2.8
WSW	0.1	0.1										3.0	3.3
W			0.1									4.0	2.5
WNW	0.1	0.1	0.1	0.1								5.7	2.6
NW	1.1		0.4	0.0	0.2	0.2		1.1				0.2	14.0
NNW			0.1	0.1	0.1							1.0	13.3
VARBL													
CALM												12.1	
	1.2	2.0	10.5	3.6	1.2	0.4		1.1				100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 7

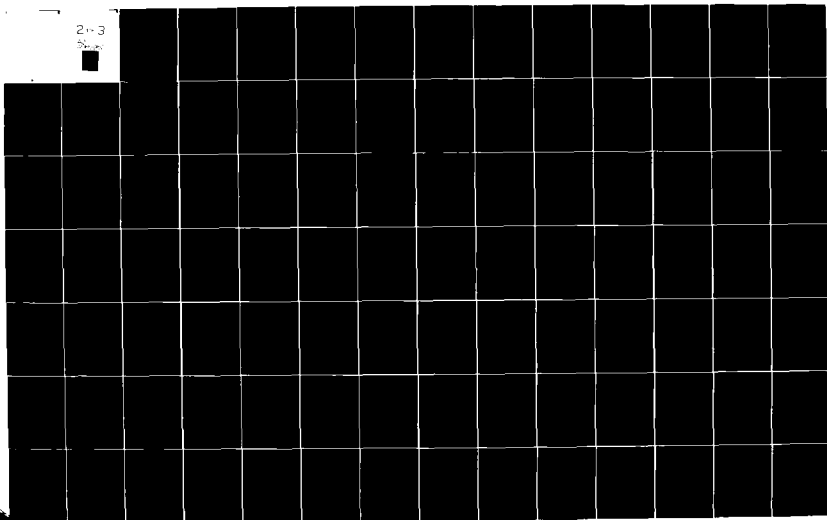
AD-A088 962

AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
BARDENAS REALES RANGE, SPAIN. REVISED UNIFORM SUMMARY OF SURFAC--ETC(U)  
JUN 75  
UNCLASSIFIED USAFETAC/DS-80/088

NL

2-3

2-3



DATE: 12/01/54  
 PLACE: F  
 AIR WEATHER: 111 111 111

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	WINDY HILLS RAMP SPALL	72-74	YEAR
CLASS			MONTH
CONDITION			HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E	2.4											4.0	3.0
ESE			3.3									4.0	3.3
SE		3.3										3.3	3.0
SSE													
S													
SSW				3.3								3.3	12.0
SW	1.0											3.3	2.0
WSW													
W	4.3											3.3	3.0
WNW			6.7	3.3								10.0	10.3
NW	3.3	3.3	10.0	16.7	6.7	3.3		3.3				46.7	14.7
NNW				6.7	3.3	3.3						13.3	17.3
VARBL													
CALM												10.0	
	12.4	6.7	20.0	30.0	10.0	6.7		3.3				100.0	11.3

TOTAL NUMBER OF OBSERVATIONS 30

2

U.S. AIR FORCE  
 WIND DATA  
 AIR FORCE

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION WINDY 1/2 STATION NAME WINDY 1/2 YEARS 70-75 ALL MONTH  
 CLASS ALL  
 CONDITION ALL  
 HOURS (L.S.T.) ALL

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0				.5							1.0	11.0
NNE	.0		.0									1.0	4.3
NE	.0	.5										1.0	4.0
ENE	.0	.8										1.0	3.0
E	2.3	1.0	.0									5.0	4.5
ESE	2.0	2.5	0.0	1.0	.5							14.1	6.0
SE	2.0	2.7	4.1	1.4			.0					10.0	7.0
SSE	2.3	1.3	1.4	.0								6.0	5.3
S	2.0	1.4										4.1	5.1
SSW	2.0	.0										3.0	2.0
SW	2.0			.0								2.7	4.5
WSW	.0	.5	.0									1.0	4.3
W	.0											.0	2.0
WNW	1.0	.0	.0	.0								3.0	5.4
NW	.0	.0	.0	.0	.5							2.7	10.0
NNW	.0		.0									2.7	4.2
VARBL	.0											.5	3.0
CALM												56.4	
	23.5	17.0	12.7	5.4	1.8		.5					100.0	3.6

TOTAL NUMBER OF OBSERVATIONS 220



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

Continued on Reverse Side

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq \frac{1}{16}$	$\geq 0$
NO CEILING																
$\geq 1800$																
$\geq 1500$					91.0											92.6
$\geq 1200$																
$\geq 1000$																
$\geq 900$																
$\geq 800$																
$\geq 700$																
$\geq 600$																
$\geq 500$										97.4						98.1
$\geq 400$																
$\geq 300$																
$\geq 200$																
$\geq 100$																
$\geq 0$					95.4		96.9			98.3						100.0

**EXAMPLE # 1** Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
Ceiling  $\geq 500$  feet = 98.1%.

**EXAMPLE # 2** Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

**EXAMPLE # 3** To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

#### ADDITIONAL EXAMPLES

**EXAMPLE # 4** Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.  
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

**EXAMPLE # 5** To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $\geq 1$  mile, but < 3 miles; or ceiling  $\geq 500$  feet, but < 1500 feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/HAC

# CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN 70-75

ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	≥ .05
NO CEILING	54.5	55.4	56.0	56.1	56.1	56.3	56.4	56.4	56.5	56.6	56.6	56.6	56.6	56.7	56.7	56.9
IV 10000	60.9	61.9	62.6	62.7	62.7	62.9	63.0	63.0	63.2	63.2	63.3	63.3	63.3	63.3	63.3	63.6
IV 8000	61.3	62.3	63.0	63.2	63.2	63.3	63.5	63.5	63.6	63.6	63.7	63.7	63.7	63.8	63.8	64.0
IV 6000	61.3	62.6	63.3	63.4	63.4	63.6	63.8	63.8	63.9	63.9	64.0	64.0	64.0	64.1	64.1	64.3
IV 4000	63.3	64.4	65.1	65.2	65.2	65.4	65.6	65.6	65.7	65.7	65.8	65.8	65.8	65.9	65.9	66.1
IV 2000	65.3	67.0	67.7	67.8	67.8	68.0	68.2	68.2	68.3	68.3	68.4	68.4	68.4	68.5	68.5	68.7
IV 1000	68.6	69.7	70.4	70.6	70.6	70.8	70.9	70.9	71.0	71.0	71.1	71.1	71.2	71.2	71.3	71.5
IV 800	70.4	71.6	72.3	72.5	72.5	72.7	72.8	72.8	72.9	72.9	73.0	73.0	73.1	73.1	73.1	73.4
IV 600	73.6	74.8	75.5	75.7	75.7	76.0	76.1	76.1	76.2	76.2	76.3	76.3	76.4	76.4	76.4	76.7
IV 400	77.0	78.3	79.0	79.2	79.3	79.5	79.6	79.6	79.7	79.8	79.9	79.9	79.9	80.0	80.0	80.2
IV 200	79.4	80.7	81.5	81.7	81.7	81.9	82.1	82.1	82.2	82.2	82.3	82.3	82.4	82.4	82.4	82.7
IV 100	82.0	83.3	84.1	84.4	84.4	84.6	84.8	84.8	84.9	85.0	85.1	85.1	85.1	85.2	85.2	85.4
IV 50	83.4	84.8	85.6	85.8	85.8	86.1	86.3	86.3	86.4	86.4	86.5	86.5	86.6	86.6	86.6	86.9
IV 0	85.7	87.2	88.0	88.2	88.2	88.5	88.7	88.7	88.8	88.8	88.9	89.0	89.0	89.1	89.1	89.3
IV 10000	87.9	89.3	90.2	90.4	90.4	90.7	90.9	90.9	91.0	91.0	91.1	91.1	91.2	91.2	91.2	91.5
IV 8000	89.6	91.1	92.0	92.2	92.3	92.6	92.7	92.7	92.9	92.9	93.0	93.0	93.0	93.1	93.1	93.3
IV 6000	91.1	92.6	93.5	93.8	93.8	94.1	94.3	94.3	94.4	94.4	94.5	94.6	94.6	94.7	94.7	94.9
IV 4000	92.0	93.8	94.8	95.1	95.2	95.5	95.7	95.7	95.8	95.9	96.0	96.0	96.0	96.1	96.1	96.3
IV 2000	92.3	94.0	95.0	95.5	95.5	95.8	96.1	96.1	96.2	96.2	96.4	96.4	96.4	96.5	96.5	96.7
IV 1000	92.6	94.4	95.5	95.9	95.9	96.3	96.6	96.6	96.7	96.8	96.9	96.9	96.9	97.0	97.0	97.2
IV 800	92.7	94.6	95.6	96.0	96.1	96.5	96.7	96.7	96.9	97.0	97.1	97.1	97.1	97.2	97.2	97.4
IV 600	92.9	94.7	95.9	96.3	96.4	96.9	97.1	97.1	97.3	97.3	97.4	97.4	97.4	97.5	97.5	97.8
IV 400	93.0	94.8	96.0	96.4	96.5	97.0	97.2	97.3	97.4	97.5	97.6	97.6	97.7	97.7	97.7	98.0
IV 200	93.0	94.9	96.0	96.5	96.6	97.1	97.4	97.4	97.6	97.7	97.8	97.8	97.9	97.9	97.9	98.1
IV 100	93.0	94.9	96.0	96.5	96.6	97.2	97.5	97.5	97.7	97.7	97.8	97.8	97.9	98.0	98.0	98.2
IV 50	93.0	94.9	96.1	96.6	96.7	97.3	97.6	97.6	97.8	97.8	98.0	98.0	98.1	98.1	98.2	98.5
IV 0	93.0	94.9	96.1	96.7	96.7	97.3	97.6	97.7	97.9	98.0	98.2	98.2	98.2	98.3	98.3	98.6
IV 10000	93.0	94.9	96.1	96.7	96.7	97.4	97.7	97.8	98.1	98.2	98.4	98.4	98.5	98.5	98.6	99.0
IV 8000	93.0	94.9	96.1	96.7	96.8	97.4	97.8	97.8	98.2	98.3	98.5	98.5	98.5	98.6	98.6	99.6
IV 6000	93.0	94.9	96.1	96.7	96.8	97.4	97.8	97.8	98.2	98.3	98.5	98.5	98.5	98.6	98.6	99.7
IV 4000	93.0	94.9	96.1	96.7	96.8	97.4	97.8	97.8	98.2	98.3	98.5	98.5	98.5	98.6	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS 8338

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14013

BARDENAS REALES RANGE SPAIN

70-75

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .01
UNSPECIFIED	39.7	40.0	40.6	40.8	40.8	40.8	41.2	41.2	41.7	41.7	42.4	42.4	42.7	42.7	43.6	
≥ 20000	44.6	44.9	45.5	45.7	45.7	45.7	46.1	46.1	46.6	46.6	47.3	47.3	47.6	47.8	48.8	
≥ 8000	45.1	45.4	46.3	46.6	46.6	46.6	47.0	47.0	47.5	47.5	48.2	48.2	48.5	48.7	49.7	
≥ 6000	45.2	45.5	46.6	46.9	46.9	47.0	47.5	47.5	47.9	47.9	48.7	48.7	49.0	49.1	50.1	
≥ 4000	48.1	48.4	49.4	49.7	49.7	49.9	50.3	50.3	50.7	50.7	51.5	51.5	51.8	51.9	53.0	
≥ 2000	51.5	51.8	52.8	53.1	53.1	53.4	53.9	53.9	54.3	54.3	55.1	55.1	55.4	55.5	56.5	
≥ 1000	54.2	54.5	55.5	55.8	55.8	56.1	56.5	56.5	57.0	57.0	57.9	57.9	58.2	58.5	59.5	
≥ 900	56.0	56.3	57.3	57.6	57.6	57.9	58.3	58.3	58.8	58.8	59.7	59.7	60.0	60.3	61.5	
≥ 800	61.2	61.5	62.5	62.9	62.9	63.2	63.7	63.7	64.1	64.1	65.2	65.2	65.6	65.9	67.1	
≥ 700	65.6	66.2	67.3	67.7	67.7	68.0	68.6	68.6	69.0	69.0	70.1	70.1	70.5	70.8	72.0	
≥ 600	68.5	69.0	70.1	70.5	70.5	70.8	71.4	71.4	71.9	71.9	72.9	72.9	73.4	73.7	74.9	
≥ 500	71.7	72.5	74.1	74.7	74.9	75.1	75.9	75.9	76.3	76.3	77.4	77.4	77.8	78.1	79.3	
≥ 450	73.8	74.6	76.2	76.8	76.9	77.2	78.0	78.0	78.4	78.4	79.5	79.5	79.9	80.2	81.4	
≥ 400	75.6	76.3	78.0	78.7	78.9	79.2	80.1	80.1	80.5	80.5	81.5	81.5	82.0	82.3	83.5	
≥ 350	76.9	77.7	79.3	80.1	80.2	80.5	81.5	81.5	82.0	82.0	83.0	83.0	83.5	83.8	85.0	
≥ 300	77.5	78.3	79.9	80.7	80.8	81.1	82.1	82.1	82.6	82.6	83.6	83.6	84.1	84.4	85.6	
≥ 250	78.4	79.2	80.8	81.5	81.7	82.0	83.0	83.0	83.5	83.5	84.5	84.5	85.0	85.3	86.5	
≥ 200	79.3	80.1	81.7	82.6	82.7	83.0	84.1	84.1	84.5	84.5	85.6	85.6	86.0	86.3	87.5	
≥ 1800	79.6	80.4	82.0	82.9	83.0	83.3	84.4	84.4	84.8	84.8	85.9	85.9	86.3	86.6	87.8	
≥ 1600	81.1	82.0	83.6	84.5	84.7	85.0	86.0	86.0	86.5	86.5	87.5	87.5	87.9	88.2	89.4	
≥ 1400	81.4	82.6	84.5	85.4	85.6	85.9	86.9	86.9	87.4	87.4	88.4	88.4	88.8	89.1	90.3	
≥ 1200	81.8	83.2	85.3	86.2	86.3	86.6	87.6	87.6	88.1	88.1	89.1	89.1	89.6	89.9	91.1	
≥ 1000	81.8	83.2	85.3	86.3	86.5	87.1	88.1	88.1	88.5	88.5	89.6	89.6	90.0	90.3	91.5	
≥ 900	81.8	83.3	85.4	87.1	87.2	87.8	88.8	88.8	89.3	89.3	90.3	90.3	90.9	91.1	92.3	
≥ 800	81.8	83.3	85.4	87.1	87.2	87.8	88.8	88.8	89.3	89.3	90.3	90.3	90.9	91.1	92.3	
≥ 700	81.8	83.3	85.4	87.1	87.2	87.8	88.8	88.8	89.3	89.3	90.3	90.3	90.9	91.1	92.3	
≥ 600	82.0	83.5	85.6	87.2	87.4	88.2	89.3	89.3	90.0	90.0	91.1	91.1	91.5	91.8	93.0	
≥ 500	82.0	83.5	86.0	87.9	88.1	89.1	90.2	90.2	90.9	90.9	92.0	92.0	92.4	92.7	94.2	
≥ 400	82.0	83.5	86.0	87.9	88.1	89.1	90.2	90.2	91.1	91.1	92.1	92.1	92.6	92.9	94.3	
≥ 300	82.1	83.6	86.2	88.1	88.2	89.3	90.3	90.3	91.7	91.7	92.9	92.9	93.3	93.6	95.2	
≥ 200	82.1	83.6	86.2	88.2	88.4	89.4	90.5	90.5	91.8	91.8	93.0	93.0	94.3	94.6	97.5	
≥ 100	82.1	83.6	86.2	88.2	88.4	89.4	90.5	90.5	91.8	91.8	93.0	93.0	94.0	94.5	97.9	
≥ 0	82.1	83.6	86.2	88.2	88.4	89.4	90.5	90.5	91.8	91.8	93.0	93.0	94.0	94.5	100.0	

TOTAL NUMBER OF OBSERVATIONS 672

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14613

BARDENAS REALES RANGE SPAIN

71-75

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING	43.4	45.2	46.4	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
≥ 20000	49.4	51.5	52.7	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 18000	49.9	51.9	53.1	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 16000	50.0	52.1	53.3	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
≥ 14000	50.4	52.5	53.7	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 12000	54.3	56.4	57.6	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 10000	57.0	59.1	60.3	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
≥ 8000	59.9	62.4	63.6	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 6000	62.9	65.6	66.8	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
≥ 4000	67.8	70.7	71.9	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 2000	72.8	75.7	76.9	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 1000	75.0	78.1	79.3	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 800	77.8	81.1	82.3	83.1	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 600	82.2	85.5	86.7	87.4	87.4	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 400	85.0	88.3	89.5	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 300	88.3	91.8	93.0	93.7	93.7	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 200	91.9	95.4	96.6	97.3	97.3	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 100	93.6	97.0	98.2	99.1	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	94.0	97.5	98.7	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	94.0	97.6	98.8	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	94.0	97.6	98.8	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	94.0	97.6	98.8	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	94.0	97.6	98.8	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	94.0	97.6	98.8	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	94.0	97.6	98.8	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 668

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14013

BARDENAS REALES RANGE SPAIN

70-75

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY-STATUTE MILES															
	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ .005	≥ .001
≥ 12000	44.6	45.8	46.5	46.6	46.6	46.7	46.8	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
≥ 10000	51.1	52.4	53.2	53.3	53.3	53.4	53.5	53.5	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 8000	57.3	53.6	54.4	54.5	54.5	54.6	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 6000	52.7	54.0	54.7	54.8	54.8	54.9	55.1	55.1	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
≥ 4000	53.3	55.1	55.8	56.0	56.0	56.3	56.4	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
≥ 3000	55.2	57.0	57.7	57.9	57.9	58.2	58.3	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 2000	57.3	59.2	60.0	60.2	60.2	60.4	60.5	60.5	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 1500	60.3	62.2	62.9	63.2	63.2	63.4	63.5	63.5	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 1000	63.2	65.1	65.8	66.0	66.0	66.3	66.4	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 800	68.9	70.8	71.5	71.8	71.8	72.0	72.1	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 600	71.5	73.5	74.3	74.5	74.5	74.7	74.9	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 400	76.8	78.7	79.4	79.6	79.6	79.9	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 300	78.8	80.7	81.4	81.6	81.6	81.9	82.0	82.0	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 200	83.3	85.3	86.1	86.3	86.3	86.5	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 150	87.2	89.3	90.0	90.2	90.2	90.5	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 100	90.5	92.5	93.2	93.4	93.4	93.7	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 75	93.7	95.8	96.7	96.9	96.9	97.1	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 50	95.1	97.4	98.2	98.6	98.6	98.8	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 25	95.5	97.7	98.6	98.9	98.9	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 10	95.6	98.0	98.8	99.2	99.2	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 5	95.8	98.2	99.0	99.4	99.4	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2	95.9	98.3	99.2	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1	95.9	98.3	99.2	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .75	95.9	98.3	99.2	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .5	95.9	98.3	99.2	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .25	95.9	98.3	99.2	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .1	95.9	98.3	99.2	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .05	95.9	98.3	99.2	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .01	95.9	98.3	99.2	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .005	95.9	98.3	99.2	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .001	95.9	98.3	99.2	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 839

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN

70-75

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64
≥ 2000	49.1	49.0	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
≥ 1800	57.7	58.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 1600	58.5	59.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
≥ 1400	59.1	60.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 1200	59.9	60.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 1000	61.3	62.3	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 800	64.4	65.3	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
≥ 600	67.3	68.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
≥ 400	71.2	72.1	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥ 200	74.7	75.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 100	77.5	78.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
≥ 50	82.6	83.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 25	85.2	86.4	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 12.5	89.9	91.2	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 6.25	93.6	94.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 3.125	95.7	97.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1.5625	96.4	98.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 0.78125	96.7	98.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0.390625	96.8	98.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0.1953125	96.8	98.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0.09765625	97.0	98.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0.048828125	97.1	98.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.0244140625	97.1	98.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.01220703125	97.1	98.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.006103515625	97.1	98.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.0030517578125	97.1	98.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.00152587890625	97.1	98.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.000762939453125	97.1	98.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.0003814697265625	97.1	98.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.00019073486328125	97.1	98.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.000095367431640625	97.1	98.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 953





DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE / IAC

# CEILING VERSUS VISIBILITY

14-13 BARDENAS REALES RANGE SPAIN

70-74

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

		VISIBILITY STATISTICS															
		2+	2+	2+	2+	2+	2+	2+	2+	2+	2+	2+	2+	2+	2+	2+	2+
1000	60.5	61.4	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
900	66.7	67.7	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
800	66.7	67.7	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
700	66.7	67.7	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
600	68.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
500	72.2	73.1	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
400	76.8	77.8	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
300	77.2	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
200	80.6	81.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
100	81.7	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
90	84.3	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
80	85.5	87.1	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
70	87.3	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
60	87.3	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
50	93.3	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
40	90.3	92.1	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
30	93.6	94.9	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
20	94.4	96.2	97.0	97.0	97.0	97.0	97.0	97.0	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4
10	94.7	96.9	97.7	97.7	97.7	97.9	97.9	98.0	98.0	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
9	94.9	97.0	97.9	97.9	97.9	98.0	98.0	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
8	95.1	97.2	98.0	98.0	98.0	98.4	98.4	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
7	95.1	97.4	98.4	98.4	98.4	98.7	98.7	98.8	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0
6	95.1	97.4	98.4	98.5	98.5	98.8	98.8	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
5	95.1	97.4	98.4	98.5	98.5	99.0	99.0	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
4	95.1	97.4	98.4	98.5	98.5	99.0	99.0	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
3	95.1	97.4	98.4	98.5	98.5	99.0	99.0	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
2	95.1	97.4	98.4	98.5	98.5	99.0	99.0	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
1	95.1	97.4	98.4	98.5	98.5	99.0	99.0	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0	95.1	97.4	98.4	98.5	98.5	99.0	99.0	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

607

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVIC./MAC

## CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN

70-74

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

		VISIBILITY STATISTICS															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1000	81.2	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
900	83.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
800	84.1	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
700	84.1	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
600	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
500	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
400	90.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
300	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
200	93.4	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
100	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
80	96.0	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
70	97.1	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
60	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
50	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
40	98.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
30	98.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
20	98.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
10	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
800	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
700	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
80	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 346



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAO

## CEILING VERSUS VISIBILITY

14013

BARDENAS REALES RANGE SPAIN

70-74

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

		VISIBILITY STATUTE MILES															
CEILING FEET		≥ 1	≥ 2	≥ 3	≥ 4	≥ 5	≥ 6	≥ 7	≥ 8	≥ 9	≥ 10	≥ 11	≥ 12	≥ 13	≥ 14	≥ 15	≥ 16
≥ 10000		59.8	60.7	60.9	61.0	61.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 9000		67.7	68.6	68.7	68.9	68.9	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 8000		67.7	68.6	68.7	68.9	68.9	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 7000		68.1	69.0	69.1	69.3	69.3	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 6000		71.5	72.4	72.6	72.7	72.7	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 5000		73.8	74.7	74.8	75.0	75.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 4000		76.6	77.5	77.6	77.8	77.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 3000		78.1	79.0	79.2	79.3	79.3	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 2000		81.2	82.1	82.2	82.3	82.3	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 1500		85.4	86.3	86.4	86.5	86.5	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 1000		87.3	88.3	88.6	88.7	88.7	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 900		88.7	89.7	90.0	90.1	90.1	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 800		89.2	90.2	90.5	90.6	90.6	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 700		90.6	91.6	91.9	92.0	92.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 600		92.0	93.0	93.3	93.4	93.4	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 500		93.4	94.4	94.7	94.8	94.8	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 400		94.4	95.4	95.7	95.8	95.8	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 300		95.8	97.0	97.6	97.7	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 200		96.6	97.7	98.3	98.6	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 150		97.0	98.5	99.1	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100		97.1	98.5	99.2	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 90		97.1	98.5	99.2	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 80		97.1	98.5	99.2	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 70		97.1	98.5	99.2	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 60		97.1	98.5	99.2	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		97.1	98.5	99.2	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		97.1	98.5	99.2	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		97.1	98.5	99.2	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		97.1	98.5	99.2	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		97.1	98.5	99.2	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		97.1	98.5	99.2	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 787

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14013

BARDENAS REALES RANGE SPAIN

70-74

UCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ .5	≥ .3	≥ .1	≥ .05	≥ .03	≥ .01
≥ 1000	55.1	56.2	56.6	56.8	56.8	57.0	57.0	57.0	57.2	57.2	57.2	57.2	57.2	57.2	57.3	57.3
900	63.5	64.9	65.5	65.7	65.7	66.0	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.4	66.6
800	63.7	65.1	65.6	65.9	65.9	66.2	66.3	66.3	66.4	66.4	66.4	66.4	66.4	66.4	66.6	66.7
700	64.1	65.5	66.0	66.3	66.3	66.6	66.7	66.7	66.9	66.9	66.9	66.9	66.9	66.9	67.0	67.1
600	66.0	67.7	68.2	68.5	68.5	68.8	68.9	68.9	69.1	69.1	69.1	69.1	69.1	69.1	69.2	69.3
500	68.9	70.6	71.1	71.4	71.4	71.7	71.8	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.1	72.2
400	72.1	73.8	74.3	74.6	74.6	74.9	75.0	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.3	75.4
300	74.7	76.4	76.9	77.2	77.2	77.5	77.6	77.6	77.8	77.8	77.8	77.8	77.8	77.8	77.9	78.0
200	78.5	80.1	80.7	80.9	80.9	81.2	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.8
100	79.6	81.2	81.9	82.2	82.2	82.5	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.9	83.0
≥ 5000	82.7	84.5	85.2	85.5	85.5	85.8	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.2	86.3
4500	85.2	87.0	87.7	88.0	88.0	88.3	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.7	88.8
4000	86.6	88.4	89.2	89.5	89.5	89.8	89.9	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.2	90.3
3500	89.4	91.2	92.0	92.3	92.3	92.7	92.8	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.1	93.2
3000	90.5	92.3	93.2	93.5	93.5	94.1	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.5	94.6
2500	91.4	93.2	94.2	94.5	94.5	95.0	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.4	95.6
2000	91.4	93.2	94.2	94.5	94.5	95.0	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.4	95.6
1500	92.5	94.5	95.6	96.1	96.1	96.7	96.8	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.1	97.2
1000	92.8	94.8	95.9	96.7	96.7	97.2	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.7	97.8
900	93.5	95.4	96.5	97.5	97.5	98.5	98.8	98.8	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.4
800	93.5	95.4	96.7	97.7	97.7	98.6	98.9	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.6
700	93.6	95.9	97.1	98.1	98.1	99.0	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0
600	93.8	95.9	97.1	98.1	98.1	99.0	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0
500	93.8	95.9	97.1	98.1	98.1	99.0	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0
400	93.8	95.9	97.1	98.1	98.1	99.0	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0
300	93.8	95.9	97.1	98.1	98.1	99.0	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0
200	93.8	95.9	97.1	98.1	98.1	99.0	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0
100	93.8	95.9	97.1	98.1	98.1	99.0	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0
0	93.8	95.9	97.1	98.1	98.1	99.0	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 724

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN 70-74

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATISTICS															
	2+	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	10
10000	46.5	46.6	50.2	50.6	50.8	51.5	51.9	52.1	52.5	52.9	53.2	53.2	53.2	53.4	54.2	
9000	50.5	52.6	54.2	54.6	54.8	55.6	56.2	56.3	56.8	57.2	57.5	57.5	57.5	57.8	58.8	
8000	50.6	52.8	54.4	54.8	54.9	55.8	56.3	56.5	56.9	57.3	57.6	57.6	57.6	57.9	58.9	
7000	50.8	52.9	54.5	54.9	55.1	55.9	56.5	56.6	57.1	57.5	57.8	57.8	57.9	58.1	59.1	
6000	52.6	54.8	56.3	56.8	56.9	57.8	58.3	58.5	58.9	59.3	59.6	59.6	59.6	59.9	60.9	
5000	54.9	57.2	58.9	59.3	59.5	60.3	60.9	61.1	61.5	61.9	62.2	62.2	62.2	62.5	63.5	
4000	57.3	59.6	61.3	61.8	61.9	62.8	63.3	63.5	63.9	64.3	64.6	64.6	64.6	64.9	65.9	
3000	58.2	60.5	62.2	62.6	62.8	63.6	64.2	64.3	64.8	65.2	65.5	65.5	65.5	65.8	66.8	
2000	61.9	64.2	66.2	66.6	66.9	68.0	68.6	68.8	69.2	69.6	69.9	70.0	70.0	70.3	71.3	
1000	66.3	68.6	70.6	71.0	71.3	72.5	73.0	73.2	73.6	74.0	74.3	74.5	74.5	74.8	75.7	
800	69.5	71.9	74.2	74.6	74.9	76.0	76.6	76.7	77.2	77.6	77.9	78.0	78.0	78.3	79.3	
700	71.2	73.8	76.0	76.5	76.7	77.9	78.5	78.6	79.0	79.5	79.7	79.9	79.9	80.2	81.2	
600	72.0	74.6	76.9	77.3	77.6	78.7	79.3	79.5	79.9	80.3	80.6	80.7	80.7	81.0	82.0	
500	73.0	75.6	77.9	78.3	78.6	79.7	80.3	80.5	80.9	81.3	81.6	81.7	81.7	82.0	83.0	
400	74.9	77.5	79.7	80.2	80.5	81.6	82.2	82.3	82.7	83.2	83.5	83.6	83.6	83.9	84.9	
300	76.7	79.3	81.6	82.0	82.3	83.5	84.0	84.2	84.6	85.0	85.3	85.4	85.4	85.7	86.7	
200	77.7	80.3	82.6	83.3	83.6	84.7	85.3	85.4	85.9	86.3	86.6	86.7	86.7	87.0	88.0	
100	79.9	83.3	85.7	86.4	86.7	88.0	88.7	88.9	89.3	89.7	90.0	90.2	90.2	90.4	91.4	
800	80.5	83.9	86.4	87.2	87.4	88.7	89.4	89.6	90.0	90.4	90.7	90.9	90.9	91.2	92.2	
700	80.7	84.2	86.7	87.4	87.7	89.0	89.7	89.9	90.3	90.7	91.0	91.2	91.3	91.6	92.6	
600	81.3	84.9	87.9	88.7	89.0	91.3	92.0	92.2	92.6	93.0	93.3	93.4	93.6	93.9	94.9	
500	81.5	85.0	88.0	88.9	89.2	91.6	92.3	92.4	92.9	93.3	93.6	93.7	93.9	94.2	95.1	
400	81.5	85.0	88.0	88.9	89.2	91.6	92.3	92.4	93.0	93.4	93.7	93.9	94.0	94.3	95.3	
300	81.5	85.0	88.0	88.9	89.2	91.6	92.3	92.4	93.0	93.4	93.7	93.9	94.0	94.3	95.3	
200	81.5	85.0	88.0	88.9	89.2	91.6	92.3	92.4	93.0	93.4	93.7	93.9	94.0	94.3	95.3	
100	81.5	85.0	88.0	88.9	89.2	91.6	92.3	92.4	93.0	93.4	93.7	93.9	94.0	94.3	95.3	
800	81.6	85.2	88.2	89.0	89.3	91.7	92.4	92.6	93.7	94.3	94.9	95.0	96.3	96.6	99.1	
700	81.6	85.2	88.2	89.0	89.3	91.7	92.4	92.6	93.7	94.3	94.9	95.0	96.3	96.6	99.4	
600	81.6	85.2	88.2	89.0	89.3	91.7	92.4	92.6	93.7	94.3	94.9	95.0	96.3	96.6	100.0	

TOTAL NUMBER OF OBSERVATIONS 701

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN

70-74

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 2	≥ 2.5	≥ 3	≥ 3.5	≥ 4	≥ 4.5	≥ 5	≥ 5.5	≥ 6	≥ 6.5	≥ 7	≥ 7.5	≥ 8	≥ 8.5	≥ 9	≥ 10
≥ 1000	44.5	45.2	46.6	46.6	46.6	46.9	47.1	47.1	47.3	47.3	47.3	47.3	47.3	47.3	47.3	48.0
≥ 900	47.3	48.0	49.4	49.4	49.4	49.7	49.9	49.9	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.8
≥ 800	47.3	48.0	49.4	49.4	49.4	49.7	49.9	49.9	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.8
≥ 700	47.8	48.5	49.9	49.9	49.9	50.1	50.3	50.3	50.6	50.6	50.6	50.6	50.6	50.6	50.6	51.3
≥ 600	48.3	49.0	50.3	50.3	50.3	50.6	50.8	50.8	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.7
≥ 500	49.0	49.7	51.0	51.0	51.0	51.3	51.5	51.5	51.7	51.7	51.7	51.7	51.7	51.7	51.7	52.4
≥ 400	50.1	50.8	52.2	52.2	52.2	52.4	52.7	52.7	52.9	52.9	52.9	52.9	52.9	52.9	52.9	53.6
≥ 300	51.3	52.0	53.4	53.4	53.4	53.6	53.8	53.8	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.8
≥ 200	52.9	53.6	55.0	55.0	55.0	55.2	55.5	55.5	55.7	55.7	55.7	55.7	55.7	55.7	55.7	56.4
≥ 100	56.6	57.6	59.0	59.0	59.0	59.2	59.4	59.4	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.4
≥ 50	57.8	58.7	60.1	60.1	60.1	60.4	60.6	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	61.5
≥ 0	60.1	61.1	62.5	62.5	62.5	62.7	62.9	62.9	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.9
≥ 1000	62.2	63.2	64.6	64.6	64.6	64.8	65.0	65.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	66.0
≥ 900	65.5	66.4	67.8	67.8	67.8	68.1	68.3	68.3	68.5	68.5	68.5	68.5	68.5	68.5	68.5	69.2
≥ 800	67.6	68.5	69.9	69.9	69.9	70.2	70.4	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.6	71.3
≥ 700	70.6	71.8	73.2	73.4	73.4	73.7	73.9	73.9	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.8
≥ 600	72.7	73.9	75.5	76.0	76.2	76.5	76.7	76.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.6
≥ 500	73.7	75.8	77.6	78.3	78.6	79.0	79.3	79.3	79.5	79.5	79.5	79.5	79.5	79.5	79.5	80.2
≥ 400	73.9	76.0	77.9	78.6	78.8	79.5	80.2	80.2	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.4
≥ 300	74.1	76.2	78.1	78.8	79.0	79.7	80.7	80.7	81.4	81.4	81.4	81.4	81.4	81.4	81.4	82.1
≥ 200	74.1	76.2	78.1	78.8	79.0	79.7	80.7	80.7	81.4	81.4	81.4	81.4	81.4	81.4	81.4	82.1
≥ 100	74.4	76.7	78.6	79.3	79.5	80.2	81.1	81.1	81.8	81.8	81.8	81.8	81.8	81.8	82.1	82.8
≥ 50	75.1	77.4	79.3	80.0	80.2	80.9	81.8	81.8	82.5	82.5	82.5	82.5	82.5	82.5	83.0	83.7
≥ 0	75.1	77.4	79.3	80.0	80.2	80.9	81.8	81.8	82.5	82.5	82.5	82.5	82.5	82.5	83.0	83.7
≥ 1000	75.1	77.4	79.3	80.4	80.7	81.6	83.2	83.4	84.4	84.4	84.4	84.4	84.4	84.4	84.8	85.5
≥ 900	75.1	77.4	79.3	80.4	80.7	81.8	83.4	83.7	84.6	84.6	85.5	85.5	85.5	85.5	85.8	87.2
≥ 800	75.1	77.4	79.5	80.7	80.9	82.1	83.9	84.1	85.1	85.1	86.2	86.2	86.2	86.5	86.5	88.1
≥ 700	75.1	77.4	79.5	80.7	81.1	82.3	85.3	85.8	87.2	87.4	89.0	89.0	89.0	89.7	90.2	93.5
≥ 600	75.1	77.4	79.5	80.7	81.1	82.3	85.8	86.7	88.1	88.3	90.0	90.0	90.0	90.7	91.1	97.0
≥ 500	75.1	77.4	79.5	80.7	81.1	82.3	85.8	86.7	88.1	88.3	90.0	90.0	90.0	91.1	91.6	98.8
≥ 400	75.1	77.4	79.5	80.7	81.1	82.3	85.8	86.7	88.1	88.3	90.0	90.0	90.0	91.1	91.6	100.0

TOTAL NUMBER OF OBSERVATIONS 429



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14013 BARDENAS KEALES RANGE SPAIN

71-74

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY-STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING	58.3	58.3	58.3	58.3	58.3	58.3	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	61.7
≥ 10000	60.0	60.0	60.0	60.0	60.0	60.0	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	63.3
≥ 8000	60.0	60.0	60.0	60.0	60.0	60.0	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	63.3
≥ 6000	60.0	60.0	60.0	60.0	60.0	60.0	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	63.3
≥ 4000	61.7	61.7	61.7	61.7	61.7	61.7	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	65.0
≥ 2000	63.3	63.3	63.3	63.3	63.3	63.3	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	66.7
≥ 1000	66.7	66.7	66.7	66.7	66.7	66.7	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	70.0
≥ 800	70.0	70.0	70.0	70.0	70.0	70.0	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	73.3
≥ 600	73.3	73.3	73.3	73.3	73.3	73.3	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	76.7
≥ 400	78.3	78.3	78.3	78.3	78.3	78.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	81.7
≥ 200	78.3	78.3	78.3	78.3	78.3	78.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	81.7
≥ 100	78.3	78.3	80.0	80.0	80.0	80.0	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	83.3
≥ 50	78.3	78.3	80.0	80.0	80.0	80.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	85.0
≥ 25	78.3	78.3	80.0	80.0	80.0	80.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	85.0
≥ 12.5	80.0	80.0	81.7	81.7	81.7	81.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	86.7
≥ 6.25	80.0	80.0	81.7	81.7	81.7	81.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	86.7
≥ 3.125	85.0	85.0	86.7	86.7	86.7	86.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	91.7
≥ 1.5625	85.0	85.0	86.7	86.7	86.7	86.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	91.7
≥ 780	85.0	85.0	86.7	86.7	86.7	86.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	91.7
≥ 600	85.0	85.0	86.7	86.7	86.7	86.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	91.7
≥ 400	85.0	85.0	86.7	86.7	86.7	86.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	91.7
≥ 200	85.0	85.0	88.3	88.3	88.3	88.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	93.3
≥ 100	85.0	85.0	88.3	88.3	88.3	88.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	93.3
≥ 50	85.0	85.0	88.3	88.3	88.3	88.3	91.7	91.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	95.0
≥ 25	85.0	85.0	88.3	88.3	88.3	88.3	91.7	91.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	96.7
≥ 12.5	85.0	85.0	88.3	88.3	88.3	88.3	91.7	91.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	96.7
≥ 6.25	85.0	85.0	88.3	88.3	88.3	88.3	91.7	91.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	100.0

TOTAL NUMBER OF OBSERVATIONS 60

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14013

BARDENAS REALES RANGE SPAIN

70-75

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING	36.6	37.6	38.5	39.0	39.0	39.0	39.0	39.9	39.9	40.8	40.8	42.3	42.3	42.7	42.7	44.1
W 10000	39.9	40.8	41.8	42.3	42.3	42.3	43.2	43.2	44.1	44.1	45.5	45.5	46.0	46.0	47.9	
W 8000	39.9	40.8	42.7	43.7	43.7	43.7	44.6	44.6	45.5	45.5	46.9	46.9	47.4	47.4	49.3	
W 6000	39.9	40.8	42.7	43.7	43.7	43.7	44.6	44.6	45.5	45.5	46.9	46.9	47.4	47.4	49.3	
W 4000	41.8	42.7	44.6	45.5	45.5	45.5	46.5	46.5	47.4	47.4	48.8	48.8	49.3	49.3	51.2	
W 2000	44.1	45.1	46.9	47.9	47.9	47.9	48.8	48.8	49.8	49.8	51.2	51.2	51.6	51.6	53.5	
W 1000	45.9	47.9	49.8	50.7	50.7	50.7	51.6	51.6	52.6	52.6	54.5	54.5	54.9	54.9	56.8	
W 800	48.4	49.3	51.2	52.1	52.1	52.1	53.1	53.1	54.0	54.0	55.9	55.9	56.3	56.3	58.7	
W 600	54.5	55.4	57.3	58.2	58.2	58.2	59.2	59.2	60.1	60.1	62.0	62.0	62.4	62.4	64.8	
W 400	58.7	60.1	62.0	62.9	62.9	62.9	63.8	63.8	64.8	64.8	66.7	66.7	67.1	67.1	69.5	
W 300	60.1	61.5	63.4	64.3	64.3	64.3	65.3	65.3	66.2	66.2	68.1	68.1	68.5	68.5	70.9	
W 200	62.4	63.8	66.7	68.1	68.1	68.1	69.0	69.0	70.0	70.0	71.8	71.8	72.3	72.3	74.6	
W 150	65.7	67.1	70.0	71.4	71.4	71.4	72.3	72.3	73.2	73.2	75.1	75.1	75.6	75.6	77.9	
W 100	67.1	68.5	71.4	72.8	72.8	72.8	73.7	73.7	74.6	74.6	76.5	76.5	77.0	77.0	79.3	
W 80	68.5	70.0	72.8	74.2	74.2	74.2	75.6	75.6	76.5	76.5	78.4	78.4	78.9	78.9	81.2	
W 60	69.5	70.9	73.7	75.1	75.1	75.1	76.5	76.5	77.5	77.5	79.3	79.3	79.8	79.8	82.2	
W 40	71.4	72.8	75.6	77.0	77.0	77.0	78.4	78.4	79.3	79.3	81.2	81.2	81.7	81.7	84.0	
W 30	71.8	73.2	76.1	77.5	77.5	77.5	78.9	78.9	79.8	79.8	81.7	81.7	82.2	82.2	84.5	
W 20	74.6	76.5	79.3	80.8	80.8	80.8	82.2	82.2	83.1	83.1	85.0	85.0	85.4	85.4	87.8	
W 15	75.1	77.0	79.8	81.2	81.2	81.2	82.6	82.6	83.6	83.6	85.4	85.4	85.9	85.9	88.3	
W 10	75.6	77.9	81.2	82.6	82.6	82.6	84.0	84.0	85.0	85.0	86.9	86.9	87.3	87.3	89.7	
W 8	75.6	77.9	81.2	82.6	82.6	82.6	84.0	84.0	85.0	85.0	86.9	86.9	87.3	87.3	89.7	
W 6	75.6	77.9	81.2	82.6	82.6	82.6	84.0	84.0	85.4	85.4	87.3	87.3	87.8	87.8	90.1	
W 4	75.6	77.9	81.7	83.6	83.6	83.6	85.0	85.0	86.4	86.4	88.3	88.3	88.7	88.7	91.5	
W 3	75.6	77.9	81.7	83.6	83.6	83.6	85.0	85.0	87.3	87.3	89.7	89.7	90.1	90.1	93.0	
W 2	75.6	77.9	81.7	84.0	84.0	84.0	85.4	85.4	87.8	87.8	90.6	90.6	91.1	91.1	96.7	
W 1	75.6	77.9	81.7	84.0	84.0	84.0	85.4	85.4	87.8	87.8	90.6	90.6	91.1	91.1	97.2	
W 0	75.6	77.9	81.7	84.0	84.0	84.0	85.4	85.4	87.8	87.8	90.6	90.6	91.1	91.1	100.0	

TOTAL NUMBER OF OBSERVATIONS

213

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14713 BARDENAS REALES RANGE SPAIN

70-72

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING	36.5	36.5	37.4	37.4	37.4	37.4	37.4	37.4	37.8	37.8	36.7	36.7	36.7	36.7	39.6	
≥ 12000	41.0	41.0	41.9	41.9	41.9	41.9	41.9	41.9	42.3	42.3	43.2	43.2	43.2	43.2	44.6	
≥ 10000	41.9	41.9	42.8	42.8	42.8	42.8	42.8	42.8	43.2	43.2	44.1	44.1	44.1	44.6	45.5	
≥ 8000	41.9	41.9	43.2	43.2	43.2	43.7	43.7	43.7	44.1	44.1	45.0	45.0	45.0	45.5	46.4	
≥ 6000	45.5	45.5	46.8	46.8	46.8	47.3	47.3	47.3	47.7	47.7	48.6	48.6	48.6	49.1	50.0	
≥ 4000	51.8	51.8	53.2	53.2	53.2	54.1	54.1	54.1	54.5	54.5	55.4	55.4	55.4	55.9	56.8	
≥ 3000	54.5	54.5	55.9	55.9	55.9	56.8	56.8	56.8	57.2	57.2	58.1	58.1	58.1	59.0	59.9	
≥ 2000	55.4	55.4	56.8	56.8	56.8	57.7	57.7	57.7	58.1	58.1	59.0	59.0	59.0	59.9	60.8	
≥ 1500	59.5	59.5	60.8	61.3	61.3	62.2	62.2	62.2	62.6	62.6	64.0	64.0	64.4	65.3	66.2	
≥ 1000	64.9	65.3	66.7	67.1	67.1	68.0	68.5	68.5	68.9	68.9	70.3	70.3	70.7	71.6	72.5	
≥ 800	67.1	67.6	68.9	69.4	69.4	70.3	70.7	70.7	71.2	71.2	72.5	72.5	73.0	73.9	74.8	
≥ 600	69.8	70.7	72.1	72.5	73.0	73.9	74.8	74.8	75.2	75.2	76.6	76.6	77.0	77.9	78.8	
≥ 450	72.1	73.0	74.3	74.8	75.2	76.1	77.0	77.0	77.5	77.5	78.8	78.8	79.3	80.2	81.1	
≥ 300	75.2	76.1	77.5	78.4	78.8	79.7	80.6	80.6	81.1	81.1	82.4	82.4	82.9	83.8	84.7	
≥ 150	76.1	77.0	78.4	79.3	79.7	80.6	81.5	81.5	82.0	82.0	83.3	83.3	83.8	84.7	85.6	
≥ 100	76.1	77.0	78.4	79.3	79.7	80.6	81.5	81.5	82.0	82.0	83.3	83.3	83.8	84.7	85.6	
≥ 75	77.5	78.4	79.7	81.1	81.5	82.4	83.3	83.3	83.8	83.8	85.1	85.1	85.6	86.5	87.4	
≥ 60	77.9	78.8	80.2	81.5	82.0	82.9	83.8	83.8	84.2	84.2	85.6	85.6	86.0	86.9	87.8	
≥ 45	77.9	78.8	80.2	81.5	82.0	82.9	83.8	83.8	84.2	84.2	85.6	85.6	86.0	86.9	87.8	
≥ 30	78.4	79.3	80.6	82.0	82.4	83.3	84.2	84.2	84.7	84.7	86.0	86.0	86.5	87.4	88.3	
≥ 15	78.8	79.7	81.1	82.4	82.9	83.8	84.7	84.7	85.1	85.1	86.5	86.5	86.9	87.8	88.7	
≥ 10	78.8	79.7	81.1	82.4	82.9	83.8	84.7	84.7	85.1	85.1	86.5	86.5	86.9	87.8	88.7	
≥ 7.5	78.8	79.7	81.1	83.8	84.2	85.6	86.5	86.5	86.9	86.9	88.3	88.3	88.7	89.6	90.5	
≥ 6	78.8	79.7	81.1	83.8	84.2	85.6	86.5	86.5	87.4	87.4	88.3	88.3	89.6	90.1	91.0	
≥ 4.5	78.8	79.7	81.1	83.8	84.2	85.6	86.5	86.5	87.4	87.4	88.3	88.3	89.6	90.1	91.0	
≥ 3	78.8	79.7	81.1	83.8	84.2	85.6	86.5	86.5	87.4	87.4	88.3	88.3	89.6	90.1	91.0	
≥ 2	79.3	80.2	81.5	84.2	84.7	87.4	88.3	88.3	89.6	89.6	91.0	91.0	91.4	92.3	94.1	
≥ 1.5	79.3	80.2	81.5	84.2	84.7	87.4	88.3	88.3	89.6	89.6	91.0	91.0	91.4	92.3	94.1	
≥ 1	79.3	80.2	81.5	84.2	84.7	87.4	88.3	88.3	89.6	89.6	91.0	91.0	91.4	92.3	94.1	
≥ .75	79.3	80.2	81.5	84.2	84.7	87.4	88.3	88.3	89.6	89.6	91.0	91.0	91.4	92.3	94.1	
≥ .5	79.3	80.2	81.5	84.2	84.7	87.4	88.3	88.3	89.6	89.6	91.0	91.0	91.4	92.3	94.1	
≥ .25	79.3	80.2	81.5	84.2	84.7	87.4	88.3	88.3	89.6	89.6	91.0	91.0	91.4	92.3	94.1	
≥ .1	79.3	80.2	81.5	84.2	84.7	87.4	88.3	88.3	89.6	89.6	91.0	91.0	91.4	92.3	94.1	
≥ .05	79.3	80.2	81.5	84.2	84.7	87.4	88.3	88.3	89.6	89.6	91.0	91.0	91.4	92.3	94.1	
≥ .01	79.3	80.2	81.5	84.2	84.7	87.4	88.3	88.3	89.6	89.6	91.0	91.0	91.4	92.3	94.1	
≥ 0	79.3	80.2	81.5	84.2	84.7	87.4	88.3	88.3	89.6	89.6	91.0	91.0	91.4	92.3	94.1	

TOTAL NUMBER OF OBSERVATIONS 222

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/HAC

## CEILING VERSUS VISIBILITY

14013

BARDENAS REALES RANGE SPAIN

70-75

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

		VISIBILITY STATISTICS															
		24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
1000	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
900	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
800	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
700	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
600	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
500	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
400	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
300	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
200	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
100	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
0	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
1000	81.5	81.5	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
900	83.1	83.1	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
800	84.6	84.6	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
700	86.2	86.2	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
600	86.9	86.9	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
500	86.9	86.9	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
400	88.5	88.5	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
300	89.2	89.2	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
200	90.0	90.0	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
100	90.0	90.8	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
0	90.8	91.5	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
1000	90.8	91.5	93.8	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
900	90.8	92.3	94.6	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
800	90.8	92.3	94.6	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
700	90.8	92.3	94.6	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
600	90.8	92.3	94.6	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
500	90.8	92.3	94.6	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
400	90.8	92.3	94.6	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
300	90.8	92.3	94.6	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
200	90.8	92.3	94.6	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
100	90.8	92.3	94.6	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
0	90.8	92.3	94.6	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2

TOTAL NUMBER OF OBSERVATIONS

130

USAF ETAC

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN

72-75

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

VISIBILITY STATISTICS																
≥ 1	≥ 2	≥ 3	≥ 4	≥ 5	≥ 6	≥ 7	≥ 8	≥ 9	≥ 10	≥ 11	≥ 12	≥ 13	≥ 14	≥ 15	≥ 16	≥ 17
48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
95.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
95.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
95.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
95.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
95.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
97.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
97.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
97.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
97.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
97.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
97.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
97.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 47





## CEILING VERSUS VISIBILITY

5.

7900-1100

1. *Journal of the American Medical Association*, 1997; 278: 1023-1028.

TOTAL NUMBER OF OBSERVATIONS 224



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN

71-75

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

U.S. STATISTICS																										
	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
4000	43.5	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
3800	52.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
3600	52.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
3400	52.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
3200	54.3	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
3000	56.5	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
2800	58.7	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
2600	63.0	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2400	67.4	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
2200	73.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
2000	76.1	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
1800	78.3	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
1600	81.2	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
1400	84.8	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
1200	88.4	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
1000	90.6	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
800	94.9	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
600	94.9	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
400	94.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
200	94.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
100	94.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
0	94.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS 138





DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN

70-75

MARK

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0300

CEILING FEET		VISIBILITY STATISTICALS															
		2+	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	10
1000	40.6	44.0	45.7	46.2	46.2	46.2	46.2	46.2	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
900	44.3	48.7	50.4	50.9	50.9	50.9	50.9	50.9	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
800	45.3	49.1	50.9	51.3	51.3	51.3	51.3	51.3	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
700	46.6	50.4	52.1	52.6	52.6	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
600	46.6	51.3	53.0	53.4	53.4	53.8	53.8	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
500	47.0	51.7	53.4	53.8	53.8	54.3	54.3	54.3	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
400	49.1	54.3	56.0	56.4	56.4	56.8	56.8	56.8	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
300	52.1	57.3	59.0	59.4	59.4	59.8	59.8	59.8	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
200	56.4	61.5	63.2	63.7	63.7	64.1	64.1	64.1	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
100	63.7	68.8	70.5	70.9	70.9	71.4	71.4	71.4	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
50	66.2	71.4	73.1	73.5	73.5	73.9	73.9	73.9	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
0	71.8	76.9	78.6	79.1	79.1	79.5	79.5	79.5	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
1000	74.4	79.5	81.2	81.6	81.6	82.1	82.1	82.1	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
900	79.9	85.5	87.2	87.6	87.6	88.0	88.0	88.0	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
800	84.5	90.2	91.9	92.3	92.3	92.7	92.7	92.7	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
700	85.2	90.0	92.3	92.7	92.7	93.2	93.2	93.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
600	88.5	94.4	96.6	97.0	97.0	97.4	97.4	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
500	89.7	95.7	97.9	98.7	98.7	99.1	99.1	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
400	89.7	95.7	97.9	98.7	98.7	99.1	99.1	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
300	89.7	95.7	97.9	98.7	98.7	99.1	99.1	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
200	90.2	96.2	98.3	99.1	99.1	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	90.2	96.2	98.3	99.1	99.1	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
50	90.2	96.2	98.3	99.1	99.1	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	90.2	96.2	98.3	99.1	99.1	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000	90.2	96.2	98.3	99.1	99.1	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
900	90.2	96.2	98.3	99.1	99.1	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
800	90.2	96.2	98.3	99.1	99.1	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
700	90.2	96.2	98.3	99.1	99.1	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600	90.2	96.2	98.3	99.1	99.1	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	90.2	96.2	98.3	99.1	99.1	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	90.2	96.2	98.3	99.1	99.1	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	90.2	96.2	98.3	99.1	99.1	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	90.2	96.2	98.3	99.1	99.1	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	90.2	96.2	98.3	99.1	99.1	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	90.2	96.2	98.3	99.1	99.1	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

234

USAF ETAC

0145(OLA) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE / IAC

# CEILING VERSUS VISIBILITY

14713

BARDENAS REALES RANGE SPAIN

70-75

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ 0.75	≥ 0.5	≥ 0.25	≥ 0.15	≥ 0.1	≥ 0.05	≥ 0.01
NO CEILING	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
≥ 2000	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
≥ 1800	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 1600	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 1400	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 1200	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 1000	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 900	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥ 800	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 700	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 600	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 500	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 400	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 300	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 200	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 100	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 50	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 20	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 10	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.75	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.25	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.15	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.05	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.01	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

172

USAF ETAC

FORM 1-64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14C13

BARDENAS REALES RANGE SPAIN

70-71,73-75

1AK

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATISTICALS															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	≥ .05
NO CEILING	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
≥ 1000	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 800	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
≥ 600	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
≥ 400	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 200	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 100	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 80	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 60	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 40	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 30	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 20	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 15	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 10	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 6	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .25	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .15	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .05	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .02	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .01	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .005	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .002	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ .001	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 107

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

14213

BARDENAS REALES RANGE SPAIN

71-73

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
≥ 10000	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
9000	52.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
8000	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
7000	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
6000	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
5000	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
4000	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
3000	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
2000	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
1000	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
500	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
400	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
300	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
200	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
100	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
50	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
40	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
30	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
20	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
10	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

50

USAF ETAC

0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN

70-75

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0600

CEILING FEET	VISIBILITY STATISTICS															
	≥	≥ 1/4	≥ 1/2	≥ 3/4	≥ 1	≥ 1 1/4	≥ 1 1/2	≥ 2	≥ 2 1/2	≥ 3	≥ 4	≥ 5	≥ 6	≥ 7	≥ 8	≥ 9
≥ 1000	46.9	48.4	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 900	57.0	59.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 800	57.4	59.4	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 700	57.8	59.8	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 600	58.2	60.2	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 500	59.0	60.9	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 400	60.9	62.9	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 300	64.1	66.0	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 200	68.0	69.9	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 100	71.1	73.0	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 0	73.0	75.6	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 1000	79.3	81.6	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 900	82.0	84.4	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 800	87.1	89.5	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 700	89.1	91.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 600	92.6	96.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 500	93.4	96.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 400	93.8	97.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	93.8	97.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200	93.8	97.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100	93.8	97.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0	94.1	97.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	94.1	97.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	94.1	97.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	94.1	97.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	94.1	97.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	94.1	97.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	94.1	97.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	94.1	97.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	94.1	97.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	94.1	97.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	94.1	97.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	94.1	97.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 256





## CEILING VERSUS VISIBILITY

APK

1500-1700

**CHLOROPHYLL A**

[illegible]

TOTAL NUMBER OF OBSERVATIONS

95

USAF ETAC 0-14.5 (OL A) 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 031, 032, 033, 034, 035, 036, 037, 038, 039, 040, 041, 042, 043, 044, 045, 046, 047, 048, 049, 050, 051, 052, 053, 054, 055, 056, 057, 058, 059, 060, 061, 062, 063, 064, 065, 066, 067, 068, 069, 070, 071, 072, 073, 074, 075, 076, 077, 078, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 090, 091, 092, 093, 094, 095, 096, 097, 098, 099, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816





## CEILING VERSUS VISIBILITY

70-75

AY

0900-1100

[illegible]

TOTAL NUMBER OF OBSERVATIONS 208

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14013 BARBERAS REALES RANGE SPAIN

70-75

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64
≥ 1000	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 900	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 800	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 700	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 600	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
≥ 500	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 400	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 300	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 200	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 100	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 50	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 0	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 1000	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 900	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 800	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 700	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 600	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 500	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 50	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 50	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 223



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/HAC

## CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN

71-75

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING		VISIBILITY STATISTICALS															
FEET	METERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
10000	3048	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
9000	2743	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
8000	2438	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
7000	2133	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
6000	1829	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
5000	1524	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
4000	1219	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
3000	914	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
2000	609	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
1000	305	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
500	152	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
200	61	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
100	30	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
50	15	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
0	0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
10000	3048	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
9000	2743	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
8000	2438	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7000	2133	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6000	1829	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5000	1524	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4000	1219	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3000	914	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2000	609	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000	305	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	152	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	61	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	30	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
50	15	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

68

USAF ETAC

FORM 72

0-14.5 (OLA) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14015 BARDENAS REALES RANGE SPAIN

70-73

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATISTICALS															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
1000	51.1	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
900	55.6	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
800	55.6	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
700	55.6	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
600	57.3	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
500	66.7	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
400	68.9	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
300	71.1	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
200	73.3	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
100	73.3	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
0	75.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
1000	75.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
900	75.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
800	75.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
700	75.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
600	77.8	82.2	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
500	80.0	84.4	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
400	84.4	88.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
300	84.4	91.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
200	84.4	91.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
100	86.7	93.3	95.6	95.6	95.6	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
0	86.7	93.3	95.6	95.6	95.6	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
1000	86.7	93.3	95.6	95.6	95.6	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
900	86.7	93.3	95.6	95.6	95.6	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
800	86.7	93.3	95.6	95.6	95.6	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
700	86.7	93.3	95.6	95.6	95.6	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
600	86.7	93.3	95.6	95.6	95.6	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
500	86.7	93.3	95.6	95.6	95.6	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
400	86.7	93.3	95.6	95.6	95.6	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
300	86.7	93.3	95.6	95.6	95.6	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
200	86.7	93.3	95.6	95.6	95.6	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
100	86.7	93.3	95.6	95.6	95.6	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
0	86.7	93.3	95.6	95.6	95.6	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8

TOTAL NUMBER OF OBSERVATIONS 45

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/TAC

## CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN

7C-74

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11
57.1	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
63.4	65.4	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
63.4	65.4	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
63.4	65.4	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
65.4	67.5	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
71.7	73.8	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
71.7	73.8	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
75.4	77.5	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
78.0	80.1	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
79.8	81.7	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
82.7	84.8	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
83.2	85.3	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
86.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
86.4	89.5	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
90.0	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
91.6	95.3	96.9	96.9	96.9	96.9	96.9	96.9	97.4	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9
91.6	95.3	96.9	96.9	96.9	96.9	96.9	96.9	97.4	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9
92.1	95.8	97.4	97.4	97.4	97.4	97.4	97.4	97.9	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4
92.1	95.8	97.4	97.4	97.4	97.4	97.4	97.4	97.9	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4
92.1	95.8	97.4	97.4	97.4	97.4	97.4	97.4	97.9	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4
92.1	95.8	97.4	97.4	97.4	97.4	97.4	97.4	97.9	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4
92.1	95.8	97.4	97.4	97.4	97.4	97.4	97.4	97.9	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4
92.1	95.8	97.4	97.4	97.4	97.4	97.4	97.4	97.9	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4
92.1	96.3	97.9	97.9	97.9	97.9	98.4	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
92.1	96.3	97.9	97.9	97.9	97.9	98.4	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
92.1	96.3	97.9	97.9	97.9	97.9	98.4	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
92.1	96.3	97.9	97.9	97.9	97.9	98.4	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

191

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/IAC

# CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN

70-74

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

		VISIBILITY STATISTICS															
		27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	FEET	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
900	FEET	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
800	FEET	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
700	FEET	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
600	FEET	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
500	FEET	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
400	FEET	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
300	FEET	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
200	FEET	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
100	FEET	80.6	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
0	FEET	81.3	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
1000	METERS	83.1	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
900	METERS	84.4	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
800	METERS	85.0	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
700	METERS	85.6	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
600	METERS	89.4	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
500	METERS	92.5	93.1	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
400	METERS	93.1	93.8	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
300	METERS	93.1	93.8	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
200	METERS	93.8	95.6	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
100	METERS	93.8	95.6	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
0	METERS	94.4	96.3	96.9	96.9	96.9	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
1000	FEET	94.4	96.9	98.1	98.1	98.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
900	FEET	94.4	96.9	98.1	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
800	FEET	94.4	96.9	98.1	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
700	FEET	94.4	96.9	98.1	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600	FEET	94.4	96.9	98.1	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	FEET	94.4	96.9	98.1	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	FEET	94.4	96.9	98.1	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	FEET	94.4	96.9	98.1	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	FEET	94.4	96.9	98.1	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	FEET	94.4	96.9	98.1	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	FEET	94.4	96.9	98.1	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 160

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

14013

BARDENAS REALES RANGE SPAIN

70-74

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

1000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
900	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
800	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
700	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
600	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
500	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
400	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
300	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
200	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
100	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
1000	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
900	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
800	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
700	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
600	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
500	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

147

USAF ETAC

0-145 (OLA) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN

70-74

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .1	≥ .05	≥ .01	≥ .005	≥ .001
NO CEILING	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 1000	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
900-1000	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
800-900	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
700-800	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
600-700	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
500-600	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
400-500	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
300-400	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
200-300	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
100-200	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
50-100	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≤ 50	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≤ 40	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≤ 30	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≤ 20	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≤ 15	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≤ 10	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≤ 8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≤ 6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≤ 4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≤ 3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≤ 2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≤ 1.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≤ 1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≤ .5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≤ .3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≤ .1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≤ .05	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≤ .01	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≤ .005	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≤ .001	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 64

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN

70-73

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING		VISIBILITY STATISTICS															
FEET		20	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11
10000	10000	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
9000	9000	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
8000	8000	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
7000	7000	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
6000	6000	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
5000	5000	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
4000	4000	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
3000	3000	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
2000	2000	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
1000	1000	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
500	500	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
0	0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
10000	10000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
9000	9000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
8000	8000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7000	7000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6000	6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5000	5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4000	4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3000	3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2000	2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10000	10000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
9000	9000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
8000	8000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7000	7000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6000	6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5000	5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4000	4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3000	3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2000	2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

26

USAF ETAC

0145 (OLA) (P) (S) (T) (U) (V) (W) (X) (Y) (Z)





DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/VAC

# CEILING VERSUS VISIBILITY

14013 BARDENAS REALES PANGE SPAIN

70-74

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET		VISIBILITY STATISTICALS															
		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
1000	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
900	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
800	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
700	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
600	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
500	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
400	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
300	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
200	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
100	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
0	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
1000	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
900	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
800	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
700	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
600	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
500	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
400	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 93



## CEILING VERSUS VISIBILITY

JUL

1500-1700

SEP 24 SAT 1955

[illegible]

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_ 33

USAF ETAC 0-14-5 (OL A)

## CEILING VERSUS VISIBILITY

ALC

0300-0500

\* SUBMIT YOUR STATE TEAM'S

[illegible]

TOTAL NUMBER OF OBSERVATIONS

66

USAF ETAC

0-14-5 (OL A) BPP, COUNCIL EDITORIAL OFFICE, 700 P. O. BOX 980, ALBANY, N.Y. 12212

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE /MAC

## CEILING VERSUS VISIBILITY

14013

BARDENAS REALES RANGE SPAIN

70-74

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY STATISTICALS															
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
100	74.8	75.2	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
150	77.5	77.9	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	73.6
200	78.8	79.0	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
250	79.7	79.4	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
300	82.1	82.4	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
350	84.7	85.1	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
400	88.9	89.3	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
450	90.6	90.8	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
500	91.5	92.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
550	93.1	93.5	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
600	93.1	93.5	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
650	93.9	94.3	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
700	94.7	95.4	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
750	95.3	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
800	97.7	98.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
850	98.1	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
900	98.1	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
950	98.1	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000	98.1	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1100	98.1	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1200	98.1	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1300	98.1	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1400	98.1	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1500	98.1	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1600	98.1	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1700	98.1	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1800	98.1	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1900	98.1	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2000	98.1	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2100	98.1	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2200	98.1	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2300	98.1	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2400	98.1	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 262

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN

70-74

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATISTICS															
	27	24	25	24	23	21	21	21	21	21	21	21	21	21	21	21
10000	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
8000	85.9	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
6000	85.9	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
4000	87.3	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
2000	89.1	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
1000	90.5	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
800	91.4	91.8	91.8	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
600	91.4	91.8	91.8	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
400	93.6	94.1	94.1	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
200	94.1	94.5	94.5	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
100	95.0	95.5	95.5	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
80	95.0	95.5	95.5	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
60	95.9	96.4	96.4	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
40	97.7	98.2	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
20	98.2	98.6	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
10	98.2	98.6	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
8	98.2	99.1	99.1	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6	98.2	99.1	99.1	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4	98.2	99.1	99.1	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	98.2	99.1	99.1	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1	98.2	99.1	99.1	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	98.2	99.1	99.1	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

220

## CEILING VERSUS VISIBILITY

ALL

1200-1400

[illegible][illegible]

212

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN

71-74

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

VISIBILITY STATISTICS																	
CEILING FEET		≥ 1	≥ 2	≥ 3	≥ 4	≥ 5	≥ 6	≥ 7	≥ 8	≥ 9	≥ 10	≥ 11	≥ 12	≥ 13	≥ 14	≥ 15	≥ 16
NO CEILING		77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 1000		84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 900		84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 800		84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 700		90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 600		93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 500		95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 400		95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 300		95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 200		95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 100		95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 50		96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 40		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 30		98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 20		98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 10		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 5		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

122

USAF ETAC

FORM 124

0-14-5(OLA) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN

70-73

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET		VISIBILITY STATISTICALS															
		27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	1000	74.6	77.6	77.6	77.6	77.6	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
900	900	76.1	79.1	79.1	79.1	79.1	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
800	800	76.1	79.1	79.1	79.1	79.1	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
700	700	76.1	79.1	79.1	79.1	79.1	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
600	600	77.6	80.6	80.6	80.6	80.6	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
500	500	80.6	83.6	83.6	83.6	83.6	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
400	400	80.6	83.6	83.6	83.6	83.6	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
300	300	86.6	89.6	89.6	89.6	89.6	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
200	200	88.1	91.0	91.0	91.0	91.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
100	100	88.1	91.0	91.0	91.0	91.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
0	0	88.1	91.0	91.0	91.0	91.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
1000	1000	88.1	91.0	91.0	91.0	91.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
900	900	88.1	91.0	91.0	91.0	91.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
800	800	88.1	91.0	91.0	91.0	91.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
700	700	88.1	91.0	91.0	91.0	91.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
600	600	91.0	94.0	94.0	94.0	94.0	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
500	500	92.5	95.5	95.5	95.5	95.5	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
400	400	94.0	97.0	97.0	97.0	97.0	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
300	300	94.0	97.0	97.0	97.0	97.0	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
200	200	95.5	98.5	98.5	98.5	98.5	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	100	95.5	98.5	98.5	98.5	98.5	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	0	95.5	98.5	98.5	98.5	98.5	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000	1000	95.5	98.5	98.5	98.5	98.5	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
900	900	95.5	98.5	98.5	98.5	98.5	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
800	800	95.5	98.5	98.5	98.5	98.5	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
700	700	95.5	98.5	98.5	98.5	98.5	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600	600	95.5	98.5	98.5	98.5	98.5	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	500	95.5	98.5	98.5	98.5	98.5	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	400	95.5	98.5	98.5	98.5	98.5	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	300	95.5	98.5	98.5	98.5	98.5	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	200	95.5	98.5	98.5	98.5	98.5	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	100	95.5	98.5	98.5	98.5	98.5	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	0	95.5	98.5	98.5	98.5	98.5	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

67

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14013

BARDENAS REALES RANGE SPAIN

70-74

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0900

CEILING FEET	VISIBILITY STATUTE MILES															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
10000	59.4	60.7	60.7	61.1	61.1	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
9000	63.2	64.4	64.4	64.9	64.9	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
8000	63.2	64.4	64.4	64.9	64.9	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
7000	63.2	64.4	64.4	64.9	64.9	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
6000	68.2	69.5	69.5	69.9	69.9	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
5000	72.0	73.2	73.2	73.6	73.6	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
4000	73.2	74.5	74.5	74.9	74.9	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
3000	75.7	77.0	77.0	77.4	77.4	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
2000	78.2	79.5	79.5	79.9	79.9	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
1500	83.3	84.5	84.5	84.9	84.9	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
1000	85.3	87.4	87.4	87.9	87.9	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
800	87.4	89.1	89.1	89.5	89.5	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
600	87.4	89.1	89.1	89.5	89.5	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
400	88.3	90.0	90.0	90.4	90.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
200	90.4	92.1	92.1	92.5	92.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
100	92.5	94.1	94.1	94.6	94.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
50	93.7	95.4	95.4	95.8	95.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
25	94.1	95.8	96.7	97.1	97.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
10	95.4	97.1	97.9	98.3	98.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
5	95.4	97.5	98.3	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	95.4	97.5	98.3	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1	95.4	97.5	98.3	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	95.4	97.5	98.3	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

239

USAF ETAC

0-14.5 (OLA) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## CEILING VERSUS VISIBILITY

70-74

SEP

0900-1100

*Journal of Management Education* 30(6)

[illegible]

TOTAL NUMBER OF OBSERVATIONS

202

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE / IAC

## CEILING VERSUS VISIBILITY

14010 BAKDENAS REALES RANGE SPAIN

70-74

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

		VISIBILITY, STATUTE MILES															
		26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11
1000	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
900	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
800	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
700	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
600	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
500	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
400	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
300	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
200	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
100	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
90	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
80	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
70	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
60	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
50	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
40	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
30	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
20	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
90	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
80	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
70	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
50	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
40	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
20	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

181

USAF ETAC

0-145 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

14013 BARGENAS REALES RANGE SPAIN

72-74

SFP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 1	≥ 2	≥ 3	≥ 4	≥ 5	≥ 6	≥ 7	≥ 8	≥ 9	≥ 10	≥ 11	≥ 12	≥ 13	≥ 14	≥ 15	≥ 16
≥ 1000	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 900	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 800	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 700	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 600	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 500	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 400	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 300	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 200	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 100	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 50	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 30	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 20	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 10	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 2	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.25	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.05	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.025	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.01	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.005	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.0025	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.001	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.0005	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.00025	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.0001	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.00005	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.000025	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0.00001	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

98

## CEILING VERSUS VISIBILITY

JCT

0300-0500

• 2000 TV C\*Ad\* \*F V EC

TOTAL NUMBER OF OBSERVATIONS

58

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/4AC

# CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN

70-74

ICT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0300

CEILING FEET	VISIBILITY STATISTICS															
	2+	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1
10000	54.2	57.1	57.1	57.1	57.1	58.1	58.1	58.1	59.6	58.0	58.6	58.6	58.6	59.1	59.1	
9000	57.1	60.1	60.1	60.1	60.1	61.1	61.1	61.1	61.6	61.6	61.6	61.6	61.6	62.1	62.6	
8000	57.1	60.1	60.1	60.1	60.1	61.1	61.1	61.1	61.6	61.6	61.6	61.6	61.6	62.1	62.6	
7000	58.6	61.6	61.6	61.6	61.6	62.6	62.6	62.6	63.1	63.1	63.1	63.1	63.1	63.5	64.0	
6000	60.1	64.0	64.0	64.0	64.0	65.0	65.0	65.0	65.5	65.5	65.5	65.5	65.5	66.0	66.5	
5000	64.5	68.5	68.5	68.5	68.5	69.5	69.5	69.5	70.0	70.0	70.0	70.0	70.0	70.4	70.9	
4000	70.0	73.9	73.9	73.9	73.9	74.9	74.9	74.9	75.4	75.4	75.4	75.4	75.4	75.9	76.4	
3000	71.4	75.4	75.4	75.4	75.4	76.4	76.4	76.4	76.8	76.8	76.8	76.8	76.8	77.3	77.8	
2000	76.4	80.3	80.3	80.3	80.3	81.3	81.3	81.3	81.8	81.8	81.8	81.8	81.8	82.3	82.8	
1000	77.8	81.8	82.3	82.3	82.3	83.3	83.3	83.3	83.7	83.7	83.7	83.7	83.7	84.2	84.7	
800	79.3	83.3	83.7	83.7	83.7	84.7	84.7	84.7	85.2	85.2	85.2	85.2	85.2	85.7	86.2	
700	83.3	87.2	87.7	87.7	87.7	88.7	88.7	88.7	89.2	89.2	89.2	89.2	89.2	89.7	90.1	
600	83.7	87.7	88.7	88.7	88.7	89.7	89.7	89.7	90.1	90.1	90.1	90.1	90.1	90.6	91.1	
500	85.2	89.2	90.1	90.1	90.1	91.1	91.1	91.1	91.6	91.6	91.6	91.6	91.6	92.1	92.6	
400	85.2	89.2	90.1	90.1	90.1	91.1	91.1	91.1	91.6	91.6	91.6	91.6	91.6	92.1	92.6	
300	85.7	89.7	90.6	90.6	90.6	91.6	91.6	91.6	92.1	92.1	92.1	92.1	92.1	92.6	93.1	
200	85.7	89.7	90.6	90.6	90.6	91.6	91.6	91.6	92.1	92.1	92.1	92.1	92.1	92.6	93.1	
100	87.2	91.6	92.6	92.6	92.6	93.6	93.6	93.6	94.1	94.1	94.1	94.1	94.1	94.6	95.1	
80	87.7	92.1	93.1	93.1	93.1	94.1	94.1	94.1	94.6	94.6	94.6	94.6	94.6	95.1	95.6	
70	88.7	93.1	94.1	94.6	94.6	96.6	96.6	96.6	97.0	97.0	97.0	97.0	97.0	97.5	98.0	
60	88.7	93.1	94.1	94.6	94.6	97.0	97.0	97.0	97.5	97.5	97.5	97.5	97.5	98.0	98.5	
50	88.7	93.1	94.6	95.1	95.1	97.5	97.5	97.5	98.0	98.0	98.0	98.0	98.0	98.5	99.0	
40	89.2	94.1	95.6	96.1	96.1	98.5	98.5	98.5	99.0	99.0	99.0	99.0	99.0	99.5	100.0	
30	89.2	94.1	95.6	96.1	96.1	98.5	98.5	98.5	99.0	99.0	99.0	99.0	99.0	99.5	100.0	
20	89.2	94.1	95.6	96.1	96.1	98.5	98.5	98.5	99.0	99.0	99.0	99.0	99.0	99.5	100.0	
10	89.2	94.1	95.6	96.1	96.1	98.5	98.5	98.5	99.0	99.0	99.0	99.0	99.0	99.5	100.0	
5	89.2	94.1	95.6	96.1	96.1	98.5	98.5	98.5	99.0	99.0	99.0	99.0	99.0	99.5	100.0	

TOTAL NUMBER OF OBSERVATIONS 203

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAO

## CEILING VERSUS VISIBILITY

14013 BARDENAS NEALES RANGE SPAIN

70-74

001

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

VISIBILITY STATISTICS															
20	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63
53.7	54.6	55.1	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
60.2	61.6	62.5	63.0	63.0	63.0	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
60.6	62.0	63.0	63.4	63.4	63.4	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
60.6	62.0	63.0	63.4	63.4	63.4	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
64.4	65.7	66.7	67.1	67.1	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
65.7	67.1	68.1	68.5	68.5	68.5	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
68.5	69.9	70.8	71.3	71.3	71.3	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
73.1	74.5	75.5	75.9	75.9	75.9	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
75.5	76.9	77.8	78.2	78.2	78.2	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
76.9	78.2	79.2	79.6	79.6	79.6	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
81.9	83.3	84.3	84.7	84.7	84.7	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
83.3	84.7	85.6	86.1	86.1	86.1	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
84.3	85.6	86.6	87.0	87.0	87.0	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
86.4	89.8	90.7	91.2	91.2	91.2	91.7	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
90.3	91.7	93.1	93.5	93.5	93.5	94.4	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
91.2	92.6	94.0	94.4	94.4	94.4	95.4	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
91.2	92.6	94.0	94.4	94.4	94.4	95.4	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
92.6	94.0	95.4	95.8	95.8	95.8	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
93.1	94.4	95.8	96.3	96.3	96.3	97.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
93.5	94.9	96.3	96.8	96.8	96.8	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
93.5	94.9	96.3	96.8	96.8	96.8	97.7	98.6	98.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5
93.5	94.9	96.3	96.8	96.8	96.8	97.7	98.6	98.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5
94.0	95.4	96.8	97.2	97.2	97.2	98.1	99.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0
94.0	95.4	96.8	97.2	97.2	97.2	98.1	99.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0
94.0	95.4	96.8	97.2	97.2	97.2	98.1	99.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0
94.0	95.4	96.8	97.2	97.2	97.2	98.1	99.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0
94.0	95.4	96.8	97.2	97.2	97.2	98.1	99.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0
94.0	95.4	96.8	97.2	97.2	97.2	98.1	99.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0
94.0	95.4	96.8	97.2	97.2	97.2	98.1	99.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0
94.0	95.4	96.8	97.2	97.2	97.2	98.1	99.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0
94.0	95.4	96.8	97.2	97.2	97.2	98.1	99.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 216





## CEILING VERSUS VISIBILITY

LCY

1500-1700

[illegible]

TOTAL NUMBER OF OBSERVATIONS 112

## CEILING VERSUS VISIBILITY

• 13 v

2300-0500

70

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN

70-74

NDIV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800

		VISIBILITY STATISTICS															
		26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11
1000	40.0	43.1	44.5	45.4	45.4	47.2	48.2	48.6	49.5	50.5	50.9	50.9	50.9	50.9	51.4	53.7	
900	44.0	46.3	47.7	48.6	48.6	50.9	51.8	52.3	53.2	54.1	54.6	54.6	54.6	54.6	55.0	57.8	
800	44.0	46.3	47.7	48.6	48.6	50.9	51.8	52.3	53.2	54.1	54.6	54.6	54.6	54.6	55.0	57.8	
700	44.0	46.3	47.7	48.6	48.6	50.9	51.8	52.3	53.2	54.1	54.6	54.6	54.6	54.6	55.0	57.8	
600	45.9	48.2	49.5	50.5	50.5	52.8	53.7	54.1	55.0	56.0	56.4	56.4	56.4	56.4	56.9	59.6	
500	47.7	50.0	51.4	52.3	52.3	54.6	55.5	56.0	56.9	57.3	58.3	58.3	58.3	58.3	58.7	61.5	
400	48.2	50.5	51.8	52.8	52.8	55.0	56.0	56.4	57.3	58.3	58.7	58.7	58.7	58.7	59.2	61.9	
300	49.5	51.8	53.2	54.1	54.1	56.4	57.3	57.8	58.7	59.0	60.1	60.1	60.1	60.1	60.6	63.3	
200	52.3	54.6	56.4	57.3	57.3	59.6	60.6	61.0	61.9	62.8	63.3	63.3	63.3	63.3	63.8	66.5	
100	57.8	60.1	61.9	62.8	62.8	65.1	66.1	66.5	67.4	68.3	68.8	68.8	68.8	68.8	69.3	72.0	
0	61.5	63.8	65.6	66.5	66.5	68.8	69.7	70.2	71.1	72.0	72.5	72.5	72.5	72.5	72.9	75.7	
1000	61.9	64.2	66.1	67.0	67.0	69.3	70.2	70.6	71.6	72.5	72.9	72.9	72.9	72.9	73.4	76.1	
900	62.8	65.1	67.0	67.9	67.9	70.2	71.1	71.6	72.5	73.4	73.9	73.9	73.9	73.9	74.3	77.1	
800	64.7	67.0	68.8	69.7	69.7	72.0	72.9	73.4	74.3	75.2	75.7	75.7	75.7	75.7	76.1	78.9	
700	67.0	69.3	71.1	72.0	72.0	74.3	75.2	75.7	76.6	77.5	78.0	78.0	78.0	78.0	78.4	81.2	
600	69.3	71.6	73.4	74.3	74.3	76.6	77.5	78.0	78.9	79.8	80.3	80.3	80.3	80.3	80.7	83.5	
500	70.2	72.5	74.3	75.2	75.2	77.5	78.4	78.9	79.8	80.7	81.2	81.2	81.2	81.2	81.7	84.4	
400	71.6	75.2	77.1	78.0	78.0	80.7	81.7	82.1	83.0	83.9	84.4	84.4	84.4	84.4	84.9	87.6	
300	72.5	76.1	78.0	78.9	78.9	81.7	82.6	83.0	83.9	84.9	85.3	85.3	85.3	85.3	85.8	88.5	
200	72.9	76.6	78.4	79.4	79.4	82.1	83.0	83.5	84.4	85.3	85.8	85.8	85.8	85.8	86.2	89.4	
100	72.9	76.6	78.4	79.4	79.4	82.1	83.0	83.5	84.4	85.3	85.8	85.8	85.8	85.8	86.2	89.4	
0	74.3	78.0	80.3	81.2	81.2	85.8	86.7	87.2	88.1	89.0	89.4	89.4	89.4	89.4	89.9	93.1	
1000	74.3	78.0	80.3	81.2	81.2	85.8	86.7	87.2	88.1	89.0	89.4	89.4	89.4	89.4	89.9	93.1	
900	74.3	78.0	80.3	81.2	81.2	85.8	86.7	87.2	88.1	89.0	89.4	89.4	89.4	89.4	89.9	93.1	
800	74.3	78.0	80.3	81.2	81.2	85.8	86.7	87.2	88.1	89.0	89.4	89.4	89.4	89.4	89.9	93.1	
700	74.3	78.0	80.3	81.2	81.2	85.8	86.7	87.2	88.1	89.0	89.4	89.4	89.4	89.4	89.9	93.1	
600	74.3	78.0	80.3	81.2	81.2	85.8	86.7	87.2	88.1	89.0	89.4	89.4	89.4	89.4	89.9	93.1	
500	74.3	78.0	80.3	81.2	81.2	85.8	86.7	87.2	88.1	89.0	89.4	89.4	89.4	89.4	89.9	93.1	
400	74.3	78.0	80.3	81.2	81.2	85.8	86.7	87.2	88.1	89.0	89.4	89.4	89.4	89.4	89.9	93.1	
300	74.3	78.0	80.3	81.2	81.2	85.8	86.7	87.2	88.1	89.0	89.4	89.4	89.4	89.4	89.9	93.1	
200	74.3	78.0	80.3	81.2	81.2	85.8	86.7	87.2	88.1	89.0	89.4	89.4	89.4	89.4	89.9	93.1	
100	74.3	78.0	80.3	81.2	81.2	85.8	86.7	87.2	88.1	89.0	89.4	89.4	89.4	89.4	89.9	93.1	
0	74.3	78.0	80.3	81.2	81.2	85.8	86.7	87.2	88.1	89.0	89.4	89.4	89.4	89.4	89.9	93.1	

TOTAL NUMBER OF OBSERVATIONS

218

USAF ETAC

0.145(OLA)



## CEILING VERSUS VISIBILITY

70-74

140 V

1200-1400

### SUBJECT STATEMENTS

[illegible]

TOTAL NUMBER OF OBSERVATIONS 139







## CEILING VERSUS VISIBILITY

70-74

uEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0600

[illegible]

TOTAL NUMBER OF OBSERVATIONS 136

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/4AC

## CEILING VERSUS VISIBILITY

14013 BARDENAS REALES RANGE SPAIN 70-74

JFC

0900-1100

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	10
1000	38.4	39.0	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	40.4
900	42.5	43.2	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	44.5
800	42.5	43.2	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	44.5
700	43.2	43.8	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	45.2
600	43.2	43.8	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	45.2
500	43.8	44.5	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.9
400	46.6	47.3	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	48.6
300	48.6	49.3	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.7
200	55.5	56.8	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	58.2
100	57.5	58.9	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	60.3
0	61.5	63.0	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	64.4
1000	62.3	63.7	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.1
900	65.8	67.1	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	68.5
800	67.8	69.2	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.5
700	71.2	72.6	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	74.0
600	71.9	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.7
500	71.9	74.0	75.3	75.3	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.7
400	71.9	74.0	75.3	75.3	75.3	76.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.8
300	71.9	74.0	75.3	75.3	75.3	76.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.8
200	71.9	74.0	75.3	75.3	75.3	76.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.8
100	71.9	74.0	75.3	75.3	75.3	76.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.8
0	71.9	74.0	75.3	75.3	75.3	77.4	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.8
1000	71.9	74.0	75.3	75.3	75.3	77.4	80.8	81.5	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.9
900	71.9	74.0	75.3	75.3	75.3	77.4	80.8	81.5	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.9
800	71.9	74.0	75.3	75.3	75.3	77.4	80.8	81.5	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.9
700	71.9	74.0	75.3	75.3	75.3	77.4	82.2	82.9	83.6	84.2	84.2	84.2	84.2	84.2	84.2	84.9
600	71.9	74.0	75.3	75.3	75.3	77.4	82.2	83.6	84.2	84.9	85.6	86.3	86.3	86.3	86.3	87.0
500	71.9	74.0	75.3	75.3	75.3	77.4	82.2	83.6	84.2	84.9	85.6	86.3	86.3	86.3	86.3	87.0
400	71.9	74.0	75.3	75.3	75.3	77.4	82.2	83.6	84.2	84.9	85.6	86.3	86.3	86.3	86.3	87.0
300	71.9	74.0	75.3	75.3	75.3	77.4	82.2	83.6	84.2	84.9	85.6	86.3	86.3	86.3	86.3	87.0
200	71.9	74.0	75.3	75.3	75.3	77.4	82.2	83.6	84.2	84.9	85.6	86.3	86.3	86.3	86.3	87.0
100	71.9	74.0	75.3	75.3	75.3	77.4	82.2	83.6	84.2	84.9	85.6	86.3	86.3	86.3	86.3	87.0
0	71.9	74.0	75.3	75.3	75.3	77.4	82.2	83.6	84.2	84.9	85.6	86.3	86.3	86.3	86.3	87.0

TOTAL NUMBER OF OBSERVATIONS 146

USAF ETAC

FORM 10-74

0-14-5(OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

14013

BARDENAS REALES RANGE SPAIN

70-74

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 0	≥ 1	≥ 2	≥ 3	≥ 4	≥ 5	≥ 6	≥ 7	≥ 8	≥ 9	≥ 10	≥ 11	≥ 12	≥ 13	≥ 14	≥ 15
≥ 1000	48.3	48.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	54.0
≥ 900	55.2	55.2	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	60.9
≥ 800	55.2	55.2	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	60.9
≥ 700	56.3	56.3	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	62.1
≥ 600	57.5	57.5	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	63.2
≥ 500	58.6	58.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	64.4
≥ 400	58.6	58.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	64.4
≥ 300	58.6	58.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	64.4
≥ 200	59.8	59.8	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.5
≥ 100	60.9	60.9	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	66.7
≥ 50	63.2	63.2	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	69.0
≥ 0	64.4	64.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	70.1
≥ 1000	67.8	67.8	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	73.6
≥ 900	70.1	70.1	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	75.9
≥ 800	74.7	74.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	80.5
≥ 700	78.2	78.2	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	83.9
≥ 600	79.3	79.3	85.1	86.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	88.5
≥ 500	80.5	81.6	87.4	88.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.8
≥ 400	80.5	81.6	87.4	88.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.8
≥ 300	81.6	82.8	88.5	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	92.0
≥ 200	81.6	82.8	88.5	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	92.0
≥ 100	81.6	82.8	88.5	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	92.0
≥ 50	81.6	82.8	88.5	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	92.0
≥ 0	81.6	82.8	88.5	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	92.0
≥ 1000	81.6	82.8	88.5	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	92.0
≥ 900	81.6	82.8	88.5	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	92.0
≥ 800	81.6	82.8	88.5	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	92.0
≥ 700	81.6	82.8	88.5	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	92.0
≥ 600	81.6	82.8	88.5	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	92.0
≥ 500	81.6	82.8	88.5	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	92.0
≥ 400	81.6	82.8	88.5	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	92.0
≥ 300	81.6	82.8	88.5	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	92.0
≥ 200	81.6	82.8	88.5	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	92.0
≥ 100	81.6	82.8	88.5	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	92.0
≥ 50	81.6	82.8	88.5	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	92.0
≥ 0	81.6	82.8	88.5	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	92.0

TOTAL NUMBER OF OBSERVATIONS

87

USAF ETAC

0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## CEILING VERSUS VISIBILITY

DEC

1500-1700

[illegible]

TOTAL NUMBER OF OBSERVATIONS 30

## PART D

## SKY COVER

This summary is prepared from hourly observations and is a percentage frequency distribution of total sky cover by tenths, plus mean sky cover, and total number of observations. It is presented in two tables as follows:

1. By month and annual - all hours and all years combined.
2. By month - by standard 3-hour groups.

NOTE: # 1: Sky cover (total cloud amount) was not reported by U. S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

NOTE: # 2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

<u>OKTAS</u>	<u>TENTHS</u>
0	0
1	1
2	3
3	4
4	5
5	6
6	8
7	9
8 (or obscured)	10

DATA PROCESSING SECTION  
 FTSC/USAF  
 AIR WEATHER SERVICE / AF

# SKY COVER

14011 DALLAS-FORT WORTH STATION

70-71

ALL

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
JAN	ALL	7.4	10.3		6.0	8.1	5.5	5.2		7.3	17.3	24.3	6.4	501
FEB		15.2	11.6		6.5	5.6	5.1	3.4		9.7	18.7	26.7	5.7	574
MAR		13.3	10.6		8.1	5.5	5.8	5.9		9.5	15.3	24.3	5.9	640
APR		8.1	11.5		9.4	6.9	7.2	3.5		10.5	16.9	23.3	6.1	854
MAY		5.7	9.9		9.0	13.2	7.6	6.9		14.2	10.6	22.7	6.1	820
JUN		14.7	16.8		11.5	8.0	4.7	3.3		7.3	13.9	19.3	5.1	606
JUL		24.4	17.0		15.2	9.0	7.4	4.3		6.5	10.5	5.4	3.6	343
AUG		28.1	22.2		11.5	9.7	5.2	4.9		4.4	6.0	7.8	3.2	381
SEP		20.2	13.7		11.0	7.2	6.9	5.1		10.8	11.7	12.8	4.6	748
OCT		18.1	14.9		7.2	7.1	7.9	5.2		10.0	14.7	14.9	5.0	726
NOV		12.9	13.4		10.2	7.3	5.3	3.3		9.4	13.6	24.1	5.6	703
DEC		12.5	9.6		14.3	6.1	4.8	5.1		5.2	13.4	28.8	5.8	432
TOTALS		15.1	13.5		10.5	7.9	6.4	4.7		6.6	13.4	20.0	5.3	8340

DATA PROCESSING BRANCH  
STAC/CSAF  
AIR WEATHER SERVICE / AC

## SKY COVER

140115 5.00 PNAS 0405 0405 SP410

79-7

4

STATION

STATION NAME

PERIOD

— 44 —

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JAN	00-02													
	03-05	20.0	0.3		3.3	13.3	8.3	3.3		5.	13.3	20.0	0.1	20
	06-08	11.0	3.7		9.4	9.4	2.8	5.2		7.1	13.3	23.3	0.4	212
	09-11	1.0	9.5		10.0	5.9	5.0	6.0		11.4	17.7	31.0	7.0	220
	12-14	1.0	13.2		7.0	5.4	7.0	2.3		10.1	18.0	34.1	7.0	124
	15-17	4.4	14.9		6.5	6.4	4.3	8.5		4.0	21.3	27.7	0.4	47
	18-20													
	21-23													
				</										

## SKY COVER

71-73

STATION

STATION NAME

PERIOD

— — — — —

[illegible]



2

## 1474 J. Neurosci., July 26, 2006 • 26(30):1467–1474

20-70

STATION

STATION NAME

DEB

4. 2. 1.

[illegible]

DATA PROCESSING CENTER  
ETL/C&AF  
AIR WEATHER SERVICE / SAC

## SKY COVER

14-00000 BAPTISTAS ALER 04/02/2001

70-73

STATION

51A7 ON SAME

Page 22

1

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
APR	00-02													
	03-05	14.0	2.0		18.0	8.0	12.0			4.0	13.0	26.0	0.0	30
	06-08	9.7	12.6		7.4	8.2	5.5	3.9		8.0	17.9	25.7	0.1	257
	09-11	9.3	11.0		5.7	0.1	10.2	6.1		8.7	16.7	26.0	0.2	246
	12-14	6.3	12.6		7.2	5.8	9.7	5.8		13.5	15.0	24.2	0.3	237
	15-17	1.1	19.1		5.5	0.4	8.5	2.1		10.1	19.1	17.0	0.1	94
	18-20													
	21-23													



## SKY COVER

73-76

STATION

STAT Q: NAME

252 00

2000

[illegible]

DATA PROCESSING BRANCH  
PTAC/USAF  
AIR WEATHER SERVICE / PAC

## SKY COVER

14-013 BACCHINAS SCALES FAIRGE SPAIN.

70-74

jul

STATION

STATION NAME

PERIOD

MONITOR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JUL.	00-02													
	03-05	26.7	15.4		15.4	11.5	5.8	3.8		5.8	7.7	11.5	3.7	26
	06-08	28.7	18.1		9.5	8.0	6.7	4.8		8.7	11.4	7.6	3.8	175
	09-11	24.1	12.9		19.4	8.5	7.5	5.4		6.5	5.4	5.4	5.5	93
	12-14	23.1	12.3		10.5	7.0	7.0	4.7		9.3	7.0	2.3	3.1	46
	15-17	12.1	10.2		21.2	9.1	12.1	3.0		6.1	21.2		4.3	33
	18-20													
	21-23													

## 14012 BURLINGHAM HILLS RANGE SPAIN

7.9-7.4

STATION

STATION NAME

PERIOD

4.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
AUG	00-02													
	03-05	30.4	22.7		15.2	10.0		1.0		1.0	1.0	10.0	2.5	66
	06-08	24.6	27.1		10.3	6.1	5.3	0.1		0.0	7.0	7.6	3.3	202
	09-11	29.0	20.9		7.7	10.5	0.8	3.0		4.0	0.8	9.5	3.4	220
	12-14	26.9	19.0		14.2	10.0	7.5	6.0		0.2	4.2	4.7	3.1	217
	15-17	23.1	20.7		9.9	10.7	0.0	6.0		0.0	9.9	6.6	3.7	121
	18-20													
	21-23													

## SKY COVER

73-74

7-2

STATION

STATION NAME

PER CC

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
SEP	00-02													
	03-05	37.3	9.0		14.9	6.0	9.0	1.5		7.5	1.5	13.4	2.4	37
	06-08	18.8	17.2		12.6	5.9	5.0	2.5		7.9	10.9	19.2	4.7	239
	09-11	18.6	12.3		9.3	5.9	4.9	4.4		3.6	16.2	19.6	5.3	204
	12-14	18.2	12.7		6.6	11.0	7.2	7.7		16.5	14.4	5.3	4.3	151
	15-17	8.2	17.5		14.4	7.2	8.2	9.3		13.4	15.5	6.2	4.9	97
	18-20													
	21-23													
TOTALS		20.2	13.7		11.6	7.2	6.9	5.1		10.8	11.7	12.8	4.6	788

## SKY COVER

70-71

—

STATION

STAT DO NAME

— 32 —

100

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
OCT	00-02													
	03-05	44.0	12.1		5.2	5.2	3.6	1.7		5.0	6.9	0.9	5.0	58
	06-08	17.6	16.2		7.0	8.2	6.4	6.4		6.4	11.0	19.1	4.9	204
	09-11	11.5	16.6		8.8	5.1	7.4	4.1		7.4	16.9	20.3	5.6	217
	12-14	11.1	16.3		9.0	6.1	6.9	5.9		13.3	15.6	11.1	5.2	135
	15-17	5.4	13.4		4.5	6.9	8.0	8.0		14.3	20.5	17.0	6.2	112
	18-20													
	21-23													
TOTALS		18.1	14.9		7.2	7.1	7.9	5.2		10.0	14.7	14.9	5.0	726



2

## SKY COVER

4-74

STATION

STATION NAME

PERIOD

$$\Psi_{\text{eff}} = \Psi_{\text{eff}}^{\text{eff}} + \Psi_{\text{eff}}^{\text{eff}}$$

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
MAY	00-02													
	03-05	23.7	12.7		4.2	8.5	5.6	1.4		7.0	9.9	26.0	5.1	71
	06-08	10.7	12.2		10.4	9.0	5.4	5.4		7.7	6.0	30.3	5.0	221
	09-11	8.4	11.5		14.6	6.6	3.1	4.4		8.5	19.0	24.3	5.0	226
	12-14	9.4	15.1		12.2	10.8	6.2	1.4		6.3	10.8	27.3	5.6	139
	15-17	11.0	15.7		9.8	3.9	5.9	3.9		17.6	19.6	11.3	5.5	51
	18-20													
	21-23													

## SKY COVER

75-74

STATION

STATION NAME

PERIOD

— — — — —

MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JUL	00-02													
	03-05	26.7	3.3		15.3	3.3	3.3	3.3			13.3	43.3	5.5	30
	06-08	15.9	6.5		5.7	8.0	3.0	2.9		7.2	12.3	34.5	6.2	136
	09-11	5.4	6.6		10.9	6.6	4.8	4.5		6.5	17.7	34.0	6.9	147
	12-14	4.0	11.3		18.4	5.7	5.7	4.0		6.3	17.2	25.3	6.1	67
	15-17	10.0	20.0		20.0	6.7	6.7	10.0		3.3	6.7	16.7	4.5	33
	18-20													
	21-23													
TOTALS		12.5	4.6		14.3	6.1	4.8	5.1		5.2	13.4	28.8	5.8	437

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:

- a. Daily maximum temperatures
- b. Daily minimum temperatures
- c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:

- a. Extreme maximum temperature
- b. Extreme minimum temperature

NOTE: The following symbols are used in the extreme data blocks:

- (1) \* indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

Continued on Reverse

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

- a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the ~~percentage~~ <sup>raw count</sup> of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\Sigma X^2$ ), sums of values ( $\Sigma X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma_x$ ). The number of observations used in the computation for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

DATA PROCESSING CENTER  
 USAF ETAC  
 AIR WEATHER SERVICE / 100  
 14213 BARBERS PT AFB CALIF 94001  
 STATION NAME

71-75

YEARS

-LL

# DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM DAILY OBSERVATIONS)

541.1

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
100								2.0					.2
98						1.3	9.1	13.2					2.0
96						2.5	20.8	27.3	1.1				3.7
94				.9	2.1	21.1	52.3	49.5	11.3				10.3
92				1.9	13.7	47.4	81.5	71.7	36.6	1.2			19.9
90			.2	3.4	42.7	68.7	95.5	92.9	54.8	5.2			24.1
88			1.2	15.9	57.3	78.4	100.0	96.0	60.6	25.1			35.3
86	1.1	1.1	5.5	33.6	70.1	94.1		93.0	97.3	51.2	7.8		44.1
84	6.3	.4	20.9	58.2	81.7	93.7		100.0	97.8	84.5	30.6	4.4	57.3
82	21.7	31.0	54.5	84.1	100.0	100.0			98.9	92.0	67.8	27.7	73.1
80	58.7	73.1	77.3	95.3					100.0	98.3	84.4	52.3	87.1
78	75.0	9.3	94.5	99.1						100.0	91.1	67.7	93.6
76	89.1	100.0	100.0	100.0							93.9	66.2	93.1
74	93.5										100.0	93.3	99.0
72	98.9											98.5	95.8
70	100.0											100.0	100.0
68													
66													
64													
62													
60													
58													
56													
54													
52													
50													
48													
46													
44													
42													
40													
38													
36													
34													
32													
30													
28													
26													
24													
22													
20													
18													
16													
14													
12													
10													
8													
6													
4													
2													
0													
MEAN	49.7	52.1	54.7	62.0	71.0	77.7	85.0	84.6	76.0	65.2	56.2	48.2	65.2
S D	7.712	4.665	6.604	8.095	8.392	7.922	6.699	8.374	8.121	6.741	6.704	7.822	14.372
TOTAL OBS	92	36	110	107	96	76	44	99	92	84	90	65	1044



AD-A088 962

AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
BARDENAS REALES RANGE, SPAIN. REVISED UNIFORM SUMMARY OF SURFAC--ETC (U)  
JUN 75

UNCLASSIFIED

USAFETAC/DS-80/088

NL

3-3

END  
DATE  
FILMED  
10-80  
BTIC

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAJ

# DAILY TEMPERATURES

14014 BARCELONA (EALAS RANGE SPAIN) 70-75

YEARS

ALL

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

STATION

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
60								6.1					6.1
65							11.4	21.2					32.6
70						11.1	42.9	42.4	42.4				7.5
75					11.5	42.1	84.1	73.7	32.3				17.5
80				2.8	34.4	65.3	100.0	93.8	57.0	7.1			27.0
85			9.1	28.6	63.5	90.8		99.0	30.2	28.0	1.3		38.8
90	1.1		9.1	43.9	78.1	100.0		100.0	96.8	59.3	16.7		48.6
95	15.2	10.1	27.3	74.8	100.0				100.0	69.3	51.1	15.4	64.6
100	31.1	50.3	65.3	69.7						98.3	80.0	47.7	82.4
105	76.1	94.1	97.3	100.0						100.0	94.4	89.2	94.7
110	9.1	100.0	99.1								100.0	84.6	98.0
115	25.7		100.0									96.8	99.3
120	98.2											100.0	99.9
125	100.0												100.0
130													
135													
140													
145													
150													
155													
160													
165													
170													
175													
180													
185													
190													
195													
200													
MEAN	42.5	45.2	47.0	53.5	61.3	67.7	74.0	73.7	66.2	56.3	40.4	42.7	56.7
S.D.	6.504	3.498	4.875	6.106	6.275	5.779	4.646	6.215	6.103	5.679	5.622	6.622	12.065
TOTAL OBS	92	89	110	107	96	74	44	99	93	84	90	65	1044



DATA PROCESSING BRANCH  
USAF/ETAC/DL A  
AIR WEATHER SERVICE/MAC

## MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

14013	BARUEÑAS REALES RANGE SPAIN
STATION	STATION NAME

70-75

YEARS

WHOLE DEGREES FANDENHIT

[illegible]

NOTES \* (BASED ON < FULL MONTHS)  
# (AT LEAST ONE DAY < 24 HRS)

USAF ETAC FORM 0-88-5 (OLI)

DATA PROCESSING BRANCH  
USAF/ETAC/DL A  
AIR WEATHER SERVICE/PAC

## EXTREME VALUES

MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

14013	BARDENAS REALES RANGE SPAIN
STATION	STATION NAME

74-75

YEARS

WHOLE DEGREES FARENHEIT

[illegible]

NOTES \* (BASED ON &lt; FULL MONTHS)

# (AT LEAST ONE DAY < 24 OBS)

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/PAC

# PSYCHROMETRIC SUMMARY

14017 BARDENAS REALES RANGE SPAIN

70-75

YEARS

ALL

MONTH

PAGE 1

ALL

HOURS 10, 5, 7

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.-W.B.		Dry Bulb		Wet Bulb		Dew Point													
103/101																																					
102/99																																					
93/97																																					
86/96																																					
94/91																																					
92/91																																					
91/89																																					
88/87																																					
85/85																																					
84/83																																					
82/81																																					
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42/41																																					
40/39																																					
38/37																																					
36/35																																					
Element (X)	$\Sigma x^2$		$\Sigma x$		$\bar{x}$		$\sigma_x$		No. Obs.		Mean No. of Hours with Temperature						Total																				
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																					
Dry Bulb																																					
Wet Bulb																																					
Dew Point																																					

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 64

## PSYCHROMETRIC SUMMARY

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
34/ 33	.4	.7	.2																															122	122	109	339
33/ 31	.7	.5	.1																															108	111	108	360
32/ 29	.7	.2	.0																															58	61	60	216
29/ 27	.3	.0																																46	50	47	149
26/ 25	.2	.0																																16	18	15	75
24/ 23	.1	.0																																11	12	9	55
22/ 21																																				2	15
20/ 19		.0																																2	2		5
18/ 17		.0																																2	4	3	2
16/ 15																																			1	0	1
14/ 13																																			1		4
12/ 11																																					2
10/ 10																																					3
TOTAL	0.521	4.22	214.11	0.7	7.5	5.7	5.1	3.0	2.4	1.4	1.0	.6	.3	.1	.1	.0																	8346		8304		
																																		8304		8304	

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	41568504	565128	68.119	350	8304							8760
Dry Bulb	28010554	468728	56.214	213	8346		312.32	160.11	285.4	633.0	64.5	8760
Wet Bulb	21550940	414542	49.910	158	8304		394.8	472.8	40.1			9760
Dew Point	17183837	269553	44.5	9.425	8304		947.2	25.2	3.4			8760

## PSYCHROMETRIC SUMMARY

HOURS 11.50 - 1.00

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
66/ 67						.2												2	2																
64/ 67								.2										1	1																
62/ 61						.6												4	4																
67/ 50				.6	.3	.2		.2										7	8	1															
57/ 57			.3	1.2	.9	.2												17	17	1															
58/ 55		.2	.3	1.1	.3	.2	.2											15	15	2															
54/ 53		.6	1.7	1.2	1.4	.3												34	34	11	1														
52/ 51		.5	1.7	1.4	.9	.2												36	35	13	3														
50/ 49	.2	2.1	2.7	1.2	.6													45	45	35	10														
47/ 47	.3	2.1	4.2	1.4	.3													56	56	38	23														
45/ 43	.6	4.2	3.6	.6														56	56	67	43														
44/ 43	1.3	4.7	2.1	.2														60	60	31	45														
42/ 41	2.7	10.3	2.3		.2													102	102	31	94														
40/ 39	1.7	4.7	1.4															51	51	39	98														
38/ 37	3.3	3.5	.2	.2														48	48	67	87														
36/ 35	.3	2.7	.3															28	28	31	71														
34/ 33	1.3	2.3	.3															27	27	36	37														
32/ 31	3.3	1.4	.2															32	35	43	64														
30/ 29	2.3	.6																22	27	26	38														
28/ 27	2.1	.3																16	19	15	25														
26/ 25	.5																	3	3	5	7														
24/ 23	.2																	1	1	1	5														
22/ 21																					4														
20/ 19																					1														
18/ 17																			1																
16/ 15																			1																
14/ 13																			1																
TOTAL	21.340	421.5	9.3	5.9	.9	.3	.2											659	673	659	659														

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	4633280	54528	82.7	13.585	659	$\leq 0$ F	$\leq 32$ F	$\geq 67$ F	$\geq 73$ F	$\geq 80$ F	$\geq 93$ F	Total
Dry Bulb	1267548	28696	42.6	8.090	673		97.3					744
Wet Bulb	1109473	26719	40.5	6.305	659		161.6					744
Dew Point	962711	24839	37.8	5.875	659		162.6					744

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
66/ 65							.5											7	2																
64/ 63							.1											1	1																
62/ 61					.1	.1				.1								5	3																
60/ 59				.3	.5	.1	.5											9	9																
59/ 57			.1	.1	.3	1.0	.1	.1										13	13																
56/ 55			.1	.7	1.3	1.0	.3	.3										24	23	1															
54/ 53		.1	.5	2.1	1.3	.9	.1											34	30	5															
52/ 51		.1	1.3	.7	1.0	.4	.7											53	33	3															
50/ 49		.9	4.2	.9	2.1	.3												56	56	29	5														
48/ 47	.1	1.2	4.7	1.3	.9													56	56	26	7														
46/ 45		4.6	2.4	.7	.4	.3												57	57	73	20														
44/ 43		3.7	2.7	2.2	.6													59	62	50	44														
42/ 41	.4	5.1	4.5	1.8														107	107	36	75														
40/ 39	.5	5.2	4.2	.5														60	59	94	73														
38/ 37	.4	3.4	1.9	.1														45	40	91	34														
36/ 35	1.2	1.3	.9	.1														27	27	55	79														
34/ 33	.3	3.4	.4															31	31	49	76														
32/ 31	1.0	.9	.3															15	15	33	68														
30/ 29	1.0	.3																6	6	15	55														
28/ 27	1.0																	11	11	11	42														
26/ 25	1.0																	7	7	7	20														
24/ 23	.3																	2	2	2	10														
22/ 21																					3														
20/ 19																					1														
TOTAL	3.0	34.7	28.6	11.3	6.9	4.5	1.9	1.0		.1									674	574	674														

Element (X)	ΣX'	ΣX	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3978322	35686	75.2	15.736	674	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1326292	29474	43.7	7.454	674		43.9					672
Wet Bulb	1108302	27066	40.2	5.040	674		47.8					672
Dew Point	885459	24137	35.8	5.596	674		146.4					672



## PSYCHROMETRIC SUMMARY

70-75

YEARS

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Page 111

HOURS 11:55 - 5:00

[illegible]



## PSYCHROMETRIC SUMMARY

70-75

YEARS

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MONTH \_\_\_\_\_  
 DAY \_\_\_\_\_  
 HOURS \_\_\_\_\_

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B. W.B.		TOTAL Wet Bulb Dew Point	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.	W.B.	Wet Bulb	Dew Point														
90/ 49																		1	1																
89/ 50														.4				1	1																
88/ 51														.2	.1			1	1																
87/ 52														.1	.1			1	1																
86/ 53														.1	.4			1	1																
85/ 54														.1	.4			1	1																
84/ 55														.1	.4			1	1																
83/ 56														.1	.4			1	1																
82/ 57														.1	.4			1	1																
81/ 58														.1	.4			1	1																
80/ 59														.1	.4			1	1																
79/ 60														.1	.4			1	1																
78/ 61														.1	.4			1	1																
77/ 62														.1	.4			1	1																
76/ 63														.1	.4			1	1																
75/ 64														.1	.4			1	1																
74/ 65														.1	.4			1	1																
73/ 66														.1	.4			1	1																
72/ 67														.1	.4			1	1																
71/ 68														.1	.4			1	1																
70/ 69														.1	.4			1	1																
69/ 70														.1	.4			1	1																
68/ 71														.1	.4			1	1																
67/ 72														.1	.4			1	1																
66/ 73														.1	.4			1	1																
65/ 74														.1	.4			1	1																
64/ 75														.1	.4			1	1																
63/ 76														.1	.4			1	1																
62/ 77														.1	.4			1	1																
61/ 78														.1	.4			1	1																
60/ 79														.1	.4			1	1																
59/ 80														.1	.4			1	1																
58/ 81														.1	.4			1	1																
57/ 82														.1	.4			1	1																
56/ 83														.1	.4			1	1																
55/ 84																																			

USAFETAC  
FORM  
ILL. 04  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

71-74

YEARS

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Page 1

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NO. 25 2005

## PSYCHROMETRIC SUMMARY

77-74

YEARS

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HOURS 1 5 7

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
57/ 97													.5	.5			2	5																
56/ 96													.5	.5			2	4																
54/ 94													.5	.5			2	3																
52/ 92													.5	.5			2	2																
50/ 90													.5	.5			2	1																
48/ 88													.5	.5			1	0																
46/ 86													.5	.5			1	0																
44/ 84													.5	.5			1	0																
42/ 82													.5	.5			1	0																
40/ 80													.5	.5			1	0																
38/ 78													.5	.5			1	0																
36/ 76													.5	.5			1	0																
34/ 74													.5	.5			1	0																
32/ 72													.5	.5			1	0																
30/ 70													.5	.5			1	0																
28/ 68													.5	.5			1	0																
26/ 66													.5	.5			1	0																
24/ 64													.5	.5			1	0																
22/ 62													.5	.5			1	0																
20/ 60													.5	.5			1	0																
18/ 58													.5	.5			1	0																
16/ 56													.5	.5			1	0																
14/ 54													.5	.5			1	0																
12/ 52													.5	.5			1	0																
10/ 50													.5	.5			1	0																
8/ 48													.5	.5			1	0																
6/ 46													.5	.5			1	0																
4/ 44													.5	.5			1	0																
2/ 42													.5	.5			1	0																
TOTAL	4.0	10.4	15.0	7.5	11.0	11.5	6.1	7.2	5.0	5.1	2.0	2.0	.5	.5			34	34																

Element (X)	Σx'	Σx	Σ	Σ <sub>a</sub>	No. Obs.	≤ 0 F	≤ 32 F	Mean No. of Hours with Temperature				Total
Rel. Hum.	1139145	18851	54.5	18.375	346			≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	1903924	25434	73.5	9.972	346			541.9	345.5	221.5	21.5	744
Wet Bulb	1343131	21493	62.1	4.871	346			140.2	10.8			744
Dew Point	1040130	18892	34.0	5.059	346			6.5				744

## PSYCHROMETRIC SUMMARY

8-74

YEARS

## Methods

2022

HOURS: 8 A.M. - 5 P.M.

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USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 64

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 ALL  
HOURS 11.5

HOURS 11:50

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

70-74

YEARS

217

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DATE

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Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point													
62/ 61							.1			.1	.1																							
67/ 70								.1																										
74/ 77								.1																										
75/ 77					.3	.1	.3	.3		.1	.1																							
74/ 77						.4	.4	.4	.1	.3																								
72/ 71					.5	.4	.7	.3	.1	.1																								
77/ 61				.4	1.4	.4	.3	.3	1.1																									
68/ 67				.1	1.0	.6	.3	.1	.4																									
69/ 65			.4	1.1	.8	.4	1.2	.3	.1																									
64/ 63		.1	1.3	.7	.6	1.4	1.2	.3	.3																									
62/ 61		.4	1.3	1.7	.7	1.7	1.2	.3	.3																									
50/ 59		2.1	1.4	1.5	1.7	.6	.3																											
54/ 57	.3	2.1	1.3	.4	1.6	1.2	.1																											
55/ 55	.1	1.3	1.1	1.1	1.4	.4																												
54/ 53	.1	1.2	2.3	3.3	.6																													
52/ 51	.3	2.2	2.3	1.8		.1																												
51/ 49	.4	1.7	4.3	1.4	.1																													
43/ 47	.4	1.7	3.4	.6	.1																													
43/ 43		2.3	1.7	.4																														
44/ 44	.2	2.3	1.2																															
42/ 41	.7	2.3	.7																															
41/ 39	.3	2.2	.6																															
33/ 37		1.5																																
35/ 35		.7	.1																															
34/ 33		.1																																
32/ 31																																		
31/ 29																																		
28/ 27																																		
TOTAL	2.625	4.24	6.13	3.10	6.3	6.5	3.6	2.2	.7	.3								725		725	725													

Element (X)	Σx²	Σx	x̄	s²	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	3835292	51244	70.717	154	725							
Dry Bulb	2305527	40317	55.6	9.440	725			98.5	76.7	3.1		744
Wet Bulb	1864041	36415	50.2	6.953	725		1.0	4.1				744
Dew Point	1529218	32910	45.4	6.903	725		15.4					744

USAFETAC FORM 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

D. L. L.  
 HOURS: 10:00 A.M. - 5:00 P.M.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
77 / 66						.1												1	1																
64 / 67					.1	.1			.1									1	1																
62 / 65				.4	.7	.5	.1											11	11																
64 / 61					.4	.7	.3											16	16																
62 / 61			.1	1.0	.4	.5	.7											16	16																
58 / 57			.1	1.0	2.1	1.4	.4		.1									41	41																
55 / 57			1.3	2.0	1.0	.8	.3	.3										44	44	17	2														
55 / 55			.4	1.3	3.3	.4	.7	.1										44	44	24	14														
54 / 53			.4	2.5	2.4	.0	.3											45	47	22	12														
52 / 51	.0	2.7	3.1	.1	.1	.4												50	51	44	22														
52 / 44	2.0	2.4	4.1	.0	.5	.1												75	73	35	77														
47 / 47	.5	3.4	3.4	1.0	1.0	.1												69	69	71	51														
45 / 45	1.4	3.5	.7	.1	.4													44	44	75	73														
44 / 41	1.7	4.2	1.0	.0	.1													54	54	55	52														
42 / 41	1.0	3.7	2.0	.3	.4													75	76	73	105														
40 / 35	1.4	3.0	1.0	.3	.1													41	41	44	44														
37 / 37	1.3	1.4	.3	.3														25	25	56	51														
36 / 35	.3	1.3	.0	.4														24	24	21	40														
34 / 33	1.1	.0																17	12	26	35														
32 / 31	.0	.4																9	9	19	30														
30 / 26	.7	.3																7	7	9	24														
28 / 27	.4																	3	3	3	11														
26 / 25	.1																	1	1	1	4														
24 / 23																					10														
22 / 21																					3														
TOTAL	17.7	29.3	25.4	15.2	6.4	4.4	.0	.3										706		708		708													
																			706		706														

Element (X)	Σ x'	Σ x	Σ	Σ <sup>2</sup>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	4649245	56243	79.7	15.468	706	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1639227	34095	48.2	8.181	706		70.3	4.1				720
Wet Bulb	1439636	31742	45.0	6.795	706		31.6					720
Dew Point	1261627	29425	41.7	7.070	706		33.7					720

USAFETAC FORM 0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

100

7: -76

YEARS

PAGE 11

1925

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	* 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point													
62/ 61			.2																															
63/ 59							.4																											
64/ 57					.7		.7																											
65/ 55			.7	.5	.5		.2																											
66/ 53			.6	1.2	.7																													
67/ 51		.2	1.0	1.5	2.0																													
68/ 49		.5	3.0	2.1	.5																													
69/ 47		1.4	2.5	1.5																														
70/ 45	.3	4.4	2.5																															
71/ 43	.7	6.5	2.6	.7	.2																													
72/ 41	1.6	6.8	1.9																															
73/ 39	3.7	5.7	.7																															
74/ 37	1.5	3.5	.7	.2	.5																													
75/ 35	2.1	2.6	.7																															
76/ 33	1.4	1.6	1.2																															
77/ 31	4.0	1.4	.7																															
78/ 29	1.5	.2	.2																															
79/ 27	1.5	.5																																
80/ 25	.7																																	
81/ 23	.5	.7																																
82/ 21																																		
83/ 19		.5																																
84/ 17		.7																																
85/ 15																																		
86/ 13																																		
87/ 11																																		
88/ 9																																		
TOTAL	22.237	519.2	9.1	9.1	1.9	.2												427	421	427	427													

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2936079	34847	81.6	14.716	427	$\leq 0$ F	$\leq 32$ F	$\geq 67$ F	$\geq 73$ F	$\geq 80$ F	$\geq 93$ F	
Dry Bulb	765425	13038	41.9	8.423	431		113.7					744
Wet Bulb	681174	15806	39.4	6.803	427		127.2					744
Dew Point	579997	15401	36.3	6.531	427		174.2					744

USAFETAC FORM 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE / 140

# PSYCHROMETRIC SUMMARY

14813 BARRINAS / ALES BARGE SPAIN 71-74

YEARS

14813  
MONTH

PAGE 1 000-0000  
HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
32/ 27				1.7														1	1																
32/ 31																					1														
43/ 47			1.7	3.4														2	3																
44/ 45			3.4	3.4														4	4	3	1														
44/ 43	1.7	5.2																4	4	5	3														
47/ 41	1.7	13.0	3.4															14	14	5	7														
48/ 37	1.7	12.1																15	15	6	12														
32/ 37			3.4															2	2	3	5														
32/ 33	1.7	3.4	3.4															3	5	2	5														
34/ 32	3.4	5.2																3	5	4	5														
32/ 31	1.7	1.7																2	2	7	4														
30/ 29	1.7	3.4																2	4	3	5														
28/ 27	0.9	1.7																4	6	4	7														
25/ 25																				1	2														
27/ 21																					1														
TOTAL	24.160	313.8	1.7															58	60	39	68														

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
						$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	
Rel. Hum.	450619	5085	87.7	9.131	58							
Dry Bulb	90354	2298	38.3	6.299	60		218.6					93
Wet Bulb	81821	2155	37.2	5.543	58		74.1					93
Dew Point	73770	2044	35.2	5.520	58		30.5					93

## PSYCHROMETRIC SUMMARY

75-75

YEARS

DATE \_\_\_\_\_  
MONTH \_\_\_\_\_  
PAGE 1 3600-0600  
HOURS (L. S. T.) \_\_\_\_\_

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 0900-1100  
HOURS ... S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B., W.B.	Dry Bulb	Wet Bulb	Dew Point														
58/ 57				.5														1	1																
56/ 55				.9														2	2																
54/ 53			2.3	.5	.9													3	3																
52/ 51			3.7	.9	.5													11	11	1															
50/ 49		1.4	1.5	1.4														18	18	5	1														
48/ 47		3.2	5.3	.9														20	20	13	4														
46/ 45	.5	5.5	6.4	1.4														30	30	21	15														
44/ 43	3.2	4.1	2.7	1.4														25	25	30	14														
42/ 41	3.2	1.4	3.2		.5													40	40	31	35														
40/ 39	1.5	2.7	2.5															15	15	34	30														
38/ 37	4.5	5.0	.5															25	33	24	33														
36/ 35	.9	1.4																6	6	16	26														
34/ 33	.9	1.4	.6															7	7	8	3														
32/ 31	3.2	1.4	.5															11	12	13	21														
30/ 29	2.5	.5																6	6	9	15														
28/ 27	1.4																	7	5	6	6														
26/ 25	.5																	1	1	1	2														
24/ 23																					2														
22/ 21																					1														
18/ 17																																			
TOTAL	22.433	4.29	.7	7.5	1.5													210		223		219													

Element (X)	$\Sigma X'$	$\Sigma X$	$\bar{X}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
						$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	
Rel. Hum.	1572128	18360	83.8	12.236	219							73
Dry Bulb	402321	9357	42.0	6.612	223		10.4					93
Wet Bulb	357961	8777	40.1	5.333	219		11.0					
Dew Point	314035	8213	37.5	5.259	219		20.0					93

**JSAFETAC**  
FORM  
JUL 64  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

[illegible]

USAFETAC  
FORM  
JUL 84  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.						$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	
Dry Bulb	704945	9347	73.0	13.279	128							93
Wet Bulb	320165	6394	49.2	6.637	130		2.1					93
Dew Point	265638	5796	45.3	5.026	128		2.2					93
	217747	5231	40.9	5.592	128		8.7					93

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/ IAC

# PSYCHROMETRIC SUMMARY

14012 BARDENAS REALES RANGE SPAIN 72-75

YEARS

JAN  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point			
66/ 65								2.1																										1	1				
64/ 63													2.1																					1	1				
62/ 61								2.1																										1	1				
60/ 59							4.3	2.1	2.1					2.1																				5	3	1			
57/ 57					2.1				4.3																									3	3				
56/ 55				2.1	2.1	2.1				2.1	2.1																							5	3	1			
54/ 53				4.3	2.1	2.1	10.0																											5	9	5	1		
52/ 51							2.1	4.3																										2	3	4	1		
50/ 49				2.1	2.1			4.3																										4	4	5	5		
48/ 47				2.1	2.1	6.4																												5	5	4	3		
46/ 45						6.4																													3	3	7	5	
44/ 43							4.3																												2	2	12	4	
42/ 41							4.3	4.3																											4	4	2	8	
40/ 39																																						1	4
38/ 37							2.1																												1	1	2	5	
36/ 35																																					1	6	
34/ 33																																						5	
32/ 27																																						1	
TOTAL	27.7	14.9	17.0	29.8	4.3	4.3	2.1																											47	47	47	47		

Element (X)	$\Sigma x^1$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	228237	3197	68.0	15.346	47	$\leq 0$ F	$\leq 32$ F	$\geq 67$ F	$\geq 73$ F	$\geq 80$ F	$\geq 93$ F	
Dry Bulb	128060	2436	51.8	6.260	47							93
Wet Bulb	102946	2188	46.6	4.362	47							93
Dew Point	80883	1929	41.0	6.100	47		2.0					93

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x^2$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	228237	3197	68.0	15.346	47	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	93
Dry Bulb	128060	2436	51.8	6.260	47							93
Wet Bulb	102946	2188	46.6	4.362	47							93
Dew Point	80843	1929	41.0	6.100	47	2.0						93

2

DATA PROCESSING SECTION  
USAF ETAC  
AIR WEATHER SERVICE / AF

# PSYCHROMETRIC SUMMARY

14418 BARLEAS AFBALC RANGE SPAL

71-74

YEAR

From  
Month

Period 1 0000-0000  
HOURS U.S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
48/ 47			3.9	2.0																															
45/ 45		2.0																																	
44/ 45		3.9																																	
42/ 41		17.8	9.8	5.9																17	17		4												
40/ 39		11.5																		8	5		3												
38/ 37		9.8	2.0																	6	6	11	8												
36/ 35		2.0	2.0																	2	2		2												
34/ 33		11.5																		6	5	2	7												
32/ 31		2.0																		1	1	7	2												
30/ 29	2.0																			2	2	3	9												
28/ 27	3.9																			2	2	2	6												
26/ 25	2.0																			1	1	1	3												
TOTAL	9.362	7.17	2.0	7.8	2.0																51	51	51												
																					51		51												

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	348234	4186	82.1	9.616	51							84
Dry Bulb	77583	1971	38.6	5.313	51		9.9					84
Wet Bulb	69198	1864	36.5	4.627	51		21.4					84
Dew Point	58616	1714	33.6	4.499	51		32.9					84

USAFETAC FORM 0-26-5 (OL A) REUSED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

11-72

YEARS

DATE 1 1960-0010  
HOURS 11.57

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
32/ 42		.5	1.7															11	11		2														
43/ 47	.5	1.7	2.4	.5														17	17																
46/ 45		5.3	1.5		.5	.5												17	17	14	10														
44/ 47		5.3	2.4	.5														30	32	14	10														
42/ 41		11.7	5.4	.5														30	34	35	23														
47/ 39	1.5	0.7	0.5															22	22	30	25														
38/ 37	1.5	7.3	1.5															17	17	25	27														
46/ 36	4.4	3.9	1.5	.5														15	15	24	29														
34/ 33	1.5	0.8	1.5															11	11	15	32														
32/ 31	2.5	1.5	1.5															5	5	15	15														
30/ 29	1.5	.5																5	6	5	14														
29/ 27	2.4																	5	5	5	7														
27/ 25	7.4																	2	2	2	5														
24/ 24	1.5																																		
TOTAL	1.5	53.4	525.2	1.9	.5	.5												205		205	205														

Element (X)	ΣX'	ΣX	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	1499578	17452	84.7	10.143	206	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	314473	7967	38.7	5.569	206		11.6					34
Wet Bulb	285063	7593	36.9	5.032	206		15.9					34
Dew Point	249062	7056	34.4	5.093	206		11.4					34

## PSYCHROMETRIC SUMMARY

YEARS

PLATE 1 1000-1100  
HOURS S. T.

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	TOTAL		TOTAL	
																		D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
52/ 57				1.8	.4													1	1		
54/ 57				.9	.4													3	3		
52/ 51				.9	.4													3	3		
57/ 40			.3	3.3	1.3	1.3	.4											17	17		
47/ 47			.9	7.3	1.3													27	23		1
40/ 45			.6	4.3	1.3	.9	.4											32	32	23	1
44/ 47			4.4	3.3	5.7	1.3												34	34	37	10
47/ 41	1.3	1.3	7.3	2.3														50	50	34	37
47/ 39	.9	3.9	4.9	.9														24	24	39	26
38/ 37		1.3	3.3	.4														12	12	37	31
35/ 37	1.3	1.3	.9															3	3	21	29
34/ 33	.9	2.2																7	7	15	24
32/ 31	.9	.4																3	3	10	23
30/ 27	.4	.4																2	2	2	17
25/ 27	1.3																	4	3	3	15
20/ 25	.4																	1	1	1	5
24/ 20																					3
20/ 15																					1
TOTAL	7.3	33.3	36.4	10.7	4.4	1.3	.4											224	220	224	223

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS

[illegible]

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						
						$\leq 0^\circ F$	$\leq 32^\circ F$	$\geq 67^\circ F$	$\geq 73^\circ F$	$\geq 80^\circ F$	$\geq 93^\circ F$	Total
Rel. Hum.	592874	4802	53.0	15.154	138							34
Dry Bulb	367053	7037	51.4	4.757	138							34
Wet Bulb	286530	6270	45.4	3.537	138							34
Dew Point	212721	5351	38.8	5.704	138		12.5					34

## PSYCHROMETRIC SUMMARY

70-75

YEARS

44.

Page 1 1001-1002  
HQBRS 5.7

HOURS 5 7

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/ETAC

# PSYCHROMETRIC SUMMARY

14117 GORDENAS RETALES SA-GE SPAIN 71-73

YEARS

PERIOD 1 03/1-05/01  
MONTHS  
HOURS 0000

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point															
56/ 56					1.0													1	1																	
50/ 49		1.0	1.0															2	2																	
47/ 47			2.0		1.0													4	4																	
45/ 45	1.0			1.0														2	2																	
44/ 43		3.0	1.0															3	3																	
42/ 41	1.0	5.0	15.4															12	13																	
40/ 39		0.1	3.0															7	7																	
38/ 37			3.0	10.4														6	6	12	4															
35/ 35	1.0		7.5															4	5	6	10															
34/ 33	0.0	5.5	1.0															1	3	1	0															
32/ 31		1.0	1.5															2	2		3															
30/ 29																					3															
28/ 27																					7															
26/ 25																					1															
24/ 23	1.0																	1	1	1	0															
TOTAL	10.4	32.7	50.9	1.4	3.0													57	59	56	35															

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
(Ref. Num.)						$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	
Dry Bulb	87717	2175	39.5	5.670	55		5.1					93
Wet Bulb	76983	2039	37.1	5.077	55		13.6					93
Dew Point	63617	1845	33.5	5.053	55		38.9					93

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE / TAC

# PSYCHROMETRIC SUMMARY

14514 BARROENAS LALES LALE SPAI 70-75  
STATION STATION NAME YEARS

DATE 1 0000-0000  
MONTH HOURS 0.5.1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL D.B. W.B.		TOTAL Dry Bulb Wet Bulb		Dew Point
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
50/ 55																																						
52/ 51																																						
53/ 47																																						
43/ 47																																						
43/ 45																																						
44/ 43																																						
42/ 41																																						
41/ 37																																						
38/ 37																																						
35/ 35																																						
34/ 33																																						
32/ 31																																						
32/ 27																																						
28/ 27																																						
26/ 25																																						
24/ 25																																						
22/ 21																																						
TOTAL	10.7	46.1	33.9	0.4	0.9																																	

Element (X)	$\Sigma x$	$\Sigma x^2$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	15726.0	14958	81.4	11.405	233	$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	
Dry Bulb	383933	9403	40.0	5.752	233		10.7					93
Wet Bulb	340534	9822	37.9	5.297	233		16.4					93
Dew Point	290432	8104	34.8	6.076	233		37.1					93

## PSYCHROMETRIC SUMMARY

PAGE 1 000-1100  
HOURS 5-1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
02/ 61							.4											2	1																
03/ 54			.7				.7											4	4																
08/ 57			.4	.4	.4	.7	.4											6	6																
36/ 55		.4	1.1	.7	2.2	.7	.4											15	15	2															
34/ 50			1.1	1.9	1.9													12	12	2	1														
52/ 51		1.5	1.1	2.5	1.5													17	19	4	2														
50/ 48		2.6	3.3	4.2	1.7	.7												35	45	15	6														
46/ 47		2.2	3.3	2.6	1.5	.4												27	27	20	10														
46/ 43	.7	4.3	2.2	3.7	2.2	.4												34	46	36	9														
44/ 43		2.6	4.1	3.7	.4													20	29	30	13														
42/ 41	.7	5.4	6.3	3.7	1.1													40	48	30	42														
40/ 39	.4	1.1	3.3	.7	.4													13	15	40	41														
37/ 37		1.9	1.5	.4														10	10	20	27														
36/ 35		.7	.4	.4														4	4	22	26														
34/ 33		1.1	.4															4	4	9	29														
32/ 31		.7																2	2	7	22														
30/ 29																				3	19														
26/ 27																					12														
24/ 25																					9														
24/ 24																					8														
22/ 21																					1														
20/ 13																					1														
TOTAL	1.025	7.29	0.25	7.13	0	3.7	1.1											259	270	269	269														

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	1387769	18961	70.5	13.671	269	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	93
Dry Bulb	581613	12432	46.0	5.845	270		1.0					93
Wet Bulb	477710	11254	41.8	5.058	269		3.5					93
Dew Point	372842	9856	36.7	6.404	269		24.5					93

DATA PROCESSING  
USAF STAC  
AIR FORCE MEDICAL CENTER

# PSYCHROMETRIC SUMMARY

14-15 JUL 64 FORT BRAGG AIR FORCE STATION 6701  
STATION NO. STATION NAME

11-75

YEARS

MONTH

PAGE 1 1700-1400  
HOURS U.S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.	W.B.	Dry Bulb	Wet Bulb	Dew Point															
74/ 71																																	1	1			
71/ 68										1.2	1.2																						4	4			
68/ 65										1.2																							2	2			
65/ 62																																	2	2			
62/ 59																																	2	2			
59/ 56																																	1	1			
56/ 53																																	1	1			
53/ 50																																	1	1			
50/ 47																																	1	1			
47/ 44																																	1	1			
44/ 41																																	1	1			
41/ 38																																	1	1			
38/ 35																																	1	1			
35/ 32																																	1	1			
32/ 29																																	1	1			
29/ 26																																	1	1			
26/ 23																																	1	1			
23/ 20																																	1	1			
20/ 17																																	1	1			
TOTAL	5.5	12.5	15.9	27.1	21.1	11.8	4.7	2.4																								170	170	170			

Element (X)	Σ X'	Σ X	X	%	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	349187	9371	55.113	894	170	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	93
Dry Bulb	374216	7269	54.5	6.151	170			4.4	.5			93
Wet Bulb	254737	7930	46.6	5.047	170							93
Dew Point		6471	38.1	7.090	170		18.6					93

USAFETAC FORM 0-26-5 (OLA) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

14-00000	STATION NAME	STATION NAME	71-72
14-00000	STATION NAME	STATION NAME	71-72

YEARS

Page 1 1300-0000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point																
57/ 57			2.1	2.1	4.2														4		4																
56/ 55				2.1															1		1																
54/ 53			4.2		2.1														2		2	1															
52/ 51			2.1	6.2															4		4	2	2														
50/ 49			4.2																2		2	4	1														
48/ 47			4.2	6.2															4		6	3	1														
46/ 45			6.3	2.1															6		2	2	4														
44/ 43			6.3	2.1	2.1														6		7	5	7														
42/ 41			8.3	14.6	2.1														12		12	3	19														
40/ 34			2.1														1		1	5	7																
38/ 37																			7	2																	
35/ 35			2.1														1		1	1	6																
34/ 33			2.1	4.2														3		2	2	3															
32/ 31																			2	3																	
30/ 25																				1																	
28/ 27																				2																	
TOTAL			2.1	47.6	35.4	8.3	6.2														43		49	42	45												

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	306859	3809	79.4	9.892	48	$\leq 0$ F	$\leq 32$ F	$\geq 67$ F	$\geq 73$ F	$\geq 80$ F	$\geq 93$ F	
Dry Bulb	104408	2242	45.8	6.166	49							90
Wet Bulb	39810	2060	42.9	5.461	48		9.7					90
Dew Point	77322	1906	39.7	5.903	48		11.2					90



## PSYCHROMETRIC SUMMARY

73-75

YEARS

Page 1 16-00-0000  
HOURS: 11.5.1.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
67/ 54			.4	1.2	.8													67	54																
57/ 57				1.0	.8	1.2	.4											57	57																
54/ 56			.4	1.7	2.3	.4												54	56		2														
54/ 53			1.2	2.4	2.4	.8												54	53		11														
57/ 51	.4	3.1	2.7	.8														57	51		7														
57/ 48	.4	3.9	3.5	2.4	.4													57	48		20														
43/ 47	.4	3.5	3.7	2.0														43	47		16														
47/ 45	.4	4.3	4.3	.8														47	45		38														
44/ 43		5.1	3.1	1.2														44	43		21														
47/ 41	.7	7.1	4.7	1.2														47	41		26														
41/ 39		5.3	3.3															41	39		24														
39/ 37		2.5	.8															39	37		26														
39/ 34			.8															39	34		24														
34/ 30		1.2																34	30		24														
37/ 31	1.2	.0																37	31		19														
31/ 27	.4	.4																31	27		12														
28/ 27																		28	27		2														
26/ 23																		26	23		3														
TOTAL	4.4	38.5	38.6	14.6	3.5	.4												254		254	254														

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	15993.7	19989	78.7	10.199	254	$\leq 0^\circ\text{F}$	$\leq 32^\circ\text{F}$	$\geq 67^\circ\text{F}$	$\geq 73^\circ\text{F}$	$\geq 80^\circ\text{F}$	$\geq 93^\circ\text{F}$	
Dry Bulb	557695	11833	46.2	6.491	256		3.7					90
Wet Bulb	482678	10974	43.2	5.870	254		3.5					90
Dew Point	413277	10123	39.9	6.218	254		12.8					90

USAFETAC  
FORM  
H.A. 94  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

70-72

YEARS

Page 1 of 11

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	TOTAL D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
71/ 71								.4										1			
70/ 69								.4										1			
69/ 67				.4		.4	.4											1			
68/ 66						.4	1.0											1			
67/ 65					.8	.8	.8											1			
66/ 61				2.0	.8	2.1		1.2										1			
65/ 59			.4	3.3	3.0	1.2	1.2	.8										1			
64/ 57			2.1	3.0	1.6	1.6	.4	.4										1			
63/ 55		.4	1.2	4.5	4.0	2.0												1			
62/ 53			2.0	4.1	1.6	1.2												1			
61/ 51			2.0	3.7	1.0													1			
60/ 49		.4	2.0	4.1	3.0													1			
48/ 47		2.1	3.7	2.1	2.1													1			
46/ 45		1.6	2.1	1.5	.4													1			
44/ 43		2.1	.4	.4	.4													1			
42/ 41		1.2	2.0															1			
40/ 39		.4																1			
38/ 37		.4																1			
36/ 35																		1			
34/ 33																		1			
32/ 31																		1			
30/ 29																		1			
28/ 27																		1			
TOTAL		5.62	1.03	0.02	1.41	0.7	4.7	0.3										243	243	243	

DATA PAGE 5110 3P-100  
USAF ETAC  
AIR WEATHER SERVICE/ASAC

## PSYCHROMETRIC SUMMARY

14018	BARRENAS FIALES RANGE, SPAIN
STATION	STATION NAME

71-72

YEARS

21

M<sup>2</sup>S<sub>2</sub>g.

Page 1 120-1470  
HOURS: 5-7

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point																
64/ 61												.5								1																	
62/ 61												.5								1																	
60/ 70																				1																	
70/ 77																				1																	
75/ 75																				1																	
74/ 74																				1																	
72/ 71																				1																	
70/ 69																				1																	
65/ 67																				1																	
66/ 65																				1																	
64/ 63																				1																	
62/ 61																				1																	
60/ 59																				1																	
59/ 57																				1																	
59/ 55																				1																	
54/ 54																				1																	
52/ 51																				1																	
50/ 49																				1																	
48/ 47																				1																	
48/ 45																				1																	
44/ 43																				1																	
42/ 41																				1																	
40/ 39																				1																	
38/ 37																				1																	
36/ 35																				1																	
34/ 33																				1																	
32/ 31																				1																	
30/ 29																				1																	
28/ 27																				1																	
TOTAL	1.5	5.9	11.9	20.8	19.3	16.3	14.9	5.0	1.5			1.0								202		202															

Element (X)	Σx'	Σx	Σ	Σx	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	579176	10496	52.0	12.968	202	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	790573	12616	61.0	7.143	204			26.0	5.7	.9		60
Wet Bulb	538062	10564	52.3	5.286	202							30
Dew Point	389979	8771	43.4	6.742	202		5.3					30

## PSYCHROMETRIC SUMMARY

STATION	STATION NAME	71,73-74
14110	RAVENS DALES RAIL DEPOT	71,73-74

YEARS

DATE 1 1960-1700  
HOURS 5-10

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL			TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	* 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point															
35/ 85													1.1					1	1																	
34/ 84													1.1					1	1																	
33/ 79										1.1								1	1																	
18/ 77								1.1	1.1									2	2																	
76/ 75								2.1	1.1									3	3																	
74/ 72								2.1	2.1									4	4																	
72/ 71									2.1	1.1								5	5																	
71/ 69								1.1	4.3									5	5																	
57/ 67					2.1			1.1	5.2									5	5																	
66/ 65				1.1		1.1		3.2										5	5																	
64/ 63					3.2	1.1	4.3	2.1	2.1									12	12																	
62/ 61			1.1		1.1	1.1	2.1	2.1										7	7		3															
61/ 59			1.1		2.1	5.3	3.2	2.1										13	13		4															
59/ 57			1.1	1.1	1.1	3.2	1.1											7	7		3															
56/ 55				1.1	2.1	2.1												5	5		3															
54/ 53		1.1			2.1													3	3	11	2															
52/ 51				3.2	3.2													5	5	15	2															
50/ 49		1.1		1.1	2.1													4	4	12	10															
47/ 47			1.1	1.1	2.1													4	4	14	4															
46/ 45		2.1																2	2	10	2															
44/ 43																				5	5															
42/ 41																				2	13															
40/ 39																				1	10															
38/ 37																					11															
36/ 35																					14															
34/ 33																					7															
32/ 31																					5															
30/ 29																					1															
TOTAL		4.3	4.3	8.5	21.3	13.6	10.6	10.0	7.4	10.6	1.1		2.1						94		94															

Element (X)	Z <sub>x'</sub>	Z <sub>x</sub>	X̄	s <sub>n</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	243275	4541	48.5	16.0	94							
Dry Bulb	366848	5816	61.9	8.6	94			74.9	11.5	1.9		90
Wet Bulb	249020	4812	51.2	5.3	94							80
Dew Point	161050	3846	40.9	6.3	94		5.7					90

DATA PROCESSING SECTION  
 USAF ETAC  
 AIR WEATHER SERVICE / IAC

# PSYCHROMETRIC SUMMARY

14110 RANCHOAS REALES RANCH SPAIN  
 STATION STATION NAME

73-75

YEARS

PAGE 1 0300-0500  
 MONTH  
 HOURS L.S.T.

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.	W.B.	Dry Bulb	Wet Bulb	Dew Point																			
00/ 50			0.4	2.1	4.3																																				
05/ 50			2.1	4.3	4.3																																				
10/ 53			4.3	5.4																																					
15/ 50		2.1	5.4	4.3																																					
20/ 51	2.1	5.4	4.3																																						
25/ 49		5.4																																							
30/ 47		5.4	2.1																																						
35/ 45		4.3	2.1																																						
40/ 43		4.3	2.1																																						
45/ 41	2.1	4.3	2.1																																						
50/ 39		2.1																																							
55/ 37																																									
60/ 35																																									
65/ 33																																									
70/ 21																																									
TOTAL	4.336	331.9	17.7	8.5																																					

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
Ref. Num.	300624	3728	79.3	10.344	47	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	93
Dry Bulb	127592	2460	51.3	5.662	48							93
Wet Bulb	108993	2253	47.9	4.646	47							93
Dew Point	95859	2111	44.9	4.763	47							93

DATA PROCESSING BRANCH  
 WASH DC  
 AIR WEATHER SERVICE/AFAC

# PSYCHROMETRIC SUMMARY

14-13 BARCELONA AERIAL STATION SPAIN 71-72

YEARS

MONTHS  
 12  
 HOURS 11,500

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B.	W.B.	Dry Bulb	Wet Bulb	Dew Point															
70/ 69																																					
69/ 67																																					
68/ 63																																					
64/ 63																																					
62/ 61																																					
60/ 59																																					
58/ 57																																					
56/ 55																																					
54/ 53																																					
52/ 51																																					
50/ 49																																					
48/ 47																																					
46/ 45																																					
44/ 43																																					
42/ 41																																					
40/ 39																																					
38/ 37																																					
36/ 35																																					
34/ 33																																					
32/ 31																																					
30/ 29																																					
TOTAL	2.726	2.35	4.20	8	9.6	4.2	1.2																														

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	1525149	19655	75.6	12.580	260	$\leq 0$ F	$\leq 32$ F	$\geq 67$ F	$\geq 73$ F	$\geq 80$ F	$\geq 93$ F	26
Dry Bulb	767433	14113	53.7	6.208	260			1.1				33
Wet Bulb	648495	12912	49.7	5.297	260							33
Dew Point	557332	11944	45.9	5.777	260		1.4					43



## PSYCHROMETRIC SUMMARY

YEARS

DATE 1 1700-1420  
HOURS 5-7

[illegible]

USAFETAC  
FORM  
JUL 84  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS

DATE 1 1967-1970  
HOURS 1.5.7.

[illegible]

USAFETAC  
FORM 0-26-5 (OL A)  
JUL 64  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/ETAC

# PSYCHROMETRIC SUMMARY

14017 AERODROMAS MALES RANGE SPAIN 71-73

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1401-0000  
HOURS 11.5.1.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point		
	0	1-2	3-4	5-6	7-8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31									
56/ 61						2.2				2.2																											
54/ 59			2.2					2.2																													
52/ 57			2.2	2.2	2.2																																
50/ 55			2.2	2.2	2.2	2.2																															
50/ 57			2.2	2.2	2.2	2.2																															
54/ 59			2.2	2.2	2.2	2.2																															
54/ 53			2.2	2.2	2.2	2.2																															
52/ 51						2.2	2.2																														
50/ 49						2.2	2.2																														
48/ 47						2.2																															
46/ 45						2.2																															
44/ 43						2.2	2.2																														
42/ 41																																					
40/ 39																																					
38/ 37																																					
TOTAL	5.2	46.7	23.9	11.1	1.1	4.4		2.2																													

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No Obs	Mean No. of Hours with Temperature						Total
Ref. Hum.	306942	3692	81.6	1.44	45	0 F	32 F	67 F	73 F	80 F	93 F	90
Dry Bulb	144903	2543	56.5	5.34	45							90
Wet Bulb	130063	2469	53.5	3.03	45							90
Dew Point	116079	2291	50.9	5.72	45							90

## PSYCHROMETRIC SUMMARY

YEARS

10  
MONTH  
DATE 1 1990-10-20  
HOURS 11:51

[illegible]USAFETAC  
FORM  
JUL 64  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 100-1170  
HOURS 12.5.7.

USAFETAC  
FORM  
JUL 64  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

0-1 - 1 + 1

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

Page 1 150-170  
HOURS 11:55 A.M.

[illegible]

USAFETAC  
FORM  
JUL 64  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/1AC

# PSYCHROMETRIC SUMMARY

14013 BARRERAS SCALES RANGE SPAIN 77-78  
STATION STATION NAME YEARS

JUL  
MONTH  
300-0000  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	* 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

## PSYCHROMETRIC SUMMARY

1961A	BADENAS REALES RANGE SPAIN	70-74
STATION	STATION NAME	

YEARS

JUL  
MONTH  
PAGE 1 1000-0000  
HOURS 11.5.11

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
62/ 81																		1	1																
63/ 79																		1	1																
75/ 75							2.0											4	4																
72/ 71					.9	1.9	1.9											5	5																
76/ 69				5.5	4.7	.9		.9										14	14																
65/ 67		1.9	7.3	5.5	3.7													20	20	1															
66/ 65	1.9		4.7	2.8														18	18																
64/ 63	1.9	7.3	4.7	.9	.9													17	17	22	5														
62/ 61	1.9	3.7	8.4	.9														16	16	19	7														
60/ 59	2.8	4.7	4.7	.9														14	14	25	19														
53/ 57				.9														1	1	20	19														
56/ 55		.9																2	2	13	14														
54/ 53	1.9																	2	2	4	22														
52/ 51																					4	3													
57/ 49																					2	15													
46/ 47																						4	2												
46/ 45																							2												
TOTAL	8.420	9.317	8	7.5	2.8	3.7												107	107	107	107														

Element (X)	Σ X²	Σ X	Σ	Σ²	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	547727	7571	70.8	10.651	107	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	453929	6963	65.1	5.152	107			39.1	5.2	.9		93
Wet Bulb	377592	6344	59.3	3.769	107			.9				93
Dew Point	327510	5904	55.2	4.053	107							93



## PSYCHROMETRIC SUMMARY

YEARS

JUL  
MONTH  
Page 1 190-1100  
HOURS: 11:55 P.

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

HOURS 4.5, 5, 7

[illegible]

DATA PROCESSING UNIT  
USAF ETAC  
AIR WEATHER SERVICE / WWS

# PSYCHROMETRIC SUMMARY

14013 STATION WAS READED BY: PAVON, SKILL STATION NAME 30-70

YEARS

MONTH

PERIOD 1-10-10 HOURS ALL S.W.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point																
70/ 70							1.5																														
71/ 71							1.5																														
72/ 72							1.5																														
73/ 73							1.5																														
74/ 74							1.5																														
75/ 75							1.5																														
76/ 76							1.5																														
77/ 77							1.5																														
78/ 78							1.5																														
79/ 79							1.5																														
80/ 80							1.5																														
81/ 81							1.5																														
82/ 82							1.5																														
83/ 83							1.5																														
84/ 84							1.5																														
85/ 85							1.5																														
86/ 86							1.5																														
87/ 87							1.5																														
88/ 88							1.5																														
89/ 89							1.5																														
90/ 90							1.5																														
91/ 91							1.5																														
92/ 92							1.5																														
93/ 93							1.5																														
94/ 94							1.5																														
95/ 95							1.5																														
96/ 96							1.5																														
97/ 97							1.5																														
98/ 98							1.5																														
99/ 99							1.5																														
100/ 100							1.5																														
TOTAL																																					

Element (X)	Σ x²	Σ x	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	373425	4917	74.5	10.458	66	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	266614	4180	63.3	5.379	66			26.8	5.0			93
Wet Bulb	227733	3865	58.6	4.585	66			1.4				93
Dew Point	201336	3630	55.0	5.036	66							



## PSYCHROMETRIC SUMMARY

DATE: 11-10-1960  
HOURS: 11:00 A.M.

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
87/ 87																		1	1																
87/ 86																		2	2																
87/ 85																		3	3																
87/ 84																		4	4																
87/ 83																		5	5																
87/ 82																		6	6																
87/ 81																		7	7																
87/ 80																		8	8																
87/ 79																		9	9																
87/ 78																		10	10																
87/ 77																		11	11																
87/ 76																		12	12																
87/ 75																		13	13																
87/ 74																		14	14																
87/ 73																		15	15																
87/ 72																		16	16																
87/ 71																		17	17																
87/ 70																		18	18																
87/ 69																		19	19																
87/ 68																		20	20																
87/ 67																		21	21																
87/ 66																		22	22																
87/ 65																		23	23																
87/ 64																		24	24																
87/ 63																		25	25																
87/ 62																		26	26																
87/ 61																		27	27																
87/ 60																		28	28																
87/ 59																		29	29																
87/ 58																		30	30																
87/ 57																		31	31																
87/ 56																		32	32																
87/ 55																		33	33																
87/ 54																		34	34																
87/ 53																		35	35																
87/ 52																		36	36																
87/ 51																																			

## PSYCHROMETRIC SUMMARY

71-74

YEARS

DATE 1 NOV-14 10  
HOURS 11:57

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

100-1709  
HQ 85-1507

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

Page 1 1000-0000  
HOURS

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
70/ 64			1.5															1	1																
67/ 67			1.5															1	1																
64/ 68			1.5	1.5	4.5	1.5												1	6	3															
64/ 64			2.5															2	2	1	2														
67/ 61			5.0	6.0														2	3	1	1														
60/ 57	1.		5.0	1.5	4.0		1.5											12	13	12	3														
57/ 57			4.5	6.0	1.5													8	6	4	10														
54/ 55			1.5	7.5	2.0		1.5											6	5	5	2														
54/ 51			3.0	1.5	6.0													7	7	10	4														
52/ 51			4.0	3.0	1.5													6	5	7	5														
51/ 49																			6	5	5														
48/ 47			3.0	4.0														5	5	5	5														
43/ 45			1.5															1	1	5	3														
44/ 41			1.5															1	1	3	6														
42/ 41																					7														
40/ 39																					2														
38/ 37																					1														
Total		1.5	31.5	37.5	25.4	1.5	3.0											67	87	57	57														

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	426712	5302	79.1	10.4	67							90
Dry Bulb	221837	3837	57.3	5.7	67			2.7				90
Wet Bulb	195196	3596	53.7	5.7	67							90
Dew Point	175454	3400	50.7	6.0	67							90

USAFETAC FORM 0-26.5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING SECTION  
USAF ETAC  
AIR WEATHER SERVICE/AGC

# PSYCHROMETRIC SUMMARY

14718 PASADENA REALES PANCE SPAIN 70-74

STATION

STATION NAME

YEARS

MONTH

PERIOD 1 1970-1974  
HOURS 11 S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL		TOTAL	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
72/ 71																																		1	1		
71/ 69																																		1	1		
69/ 67																																		1	1		
66/ 65																																		1	1		
64/ 62																																		1	1		
52/ 61																																		2	2		
60/ 59																																		2	2		
58/ 57																																		2	2		
58/ 55																																		2	2		
54/ 53																																		2	2		
52/ 51																																		2	2		
50/ 49																																		2	2		
48/ 47																																		2	2		
46/ 45																																		2	2		
44/ 43																																		2	2		
42/ 41																																		2	2		
40/ 39																																		2	2		
38/ 37																																		2	2		
36/ 35																																		2	2		
TOTAL	2	1	3	5	3	4	3	2	0	5	4	1	3																				239	239	239		

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma^2$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	1535116	19002	79.5	10.112	239	$\leq 0$ F	$\leq 32$ F	$\geq 67$ F	$\geq 73$ F	$\geq 80$ F	$\geq 93$ F	80
Dry Bulb	797810	12722	57.4	6.473	239			3.7				90
Wet Bulb	703422	12684	53.9	6.166	239			.8				90
Dew Point	633075	12200	51.0	6.583	239			.4				90

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE

# PSYCHROMETRIC SUMMARY

140113 BADERAS HEADS CAMP SPAIN  
STATION STATION NAME

70-74

YEARS

8.0

MONTH

0000-1100  
HOURS U.S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B.	W.B.	Dry Bulb	Wet Bulb	Dew Point													
82/ 81																																			
80/ 79																																			
78/ 77																																			
76/ 75																																			
74/ 73																																			
72/ 71																																			
70/ 69																																			
68/ 67																																			
66/ 65																																			
64/ 63																																			
62/ 61																																			
60/ 59																																			
58/ 57																																			
56/ 55																																			
54/ 53																																			
52/ 51																																			
50/ 49																																			
48/ 47																																			
46/ 45																																			
44/ 43																																			
42/ 41																																			
TOTAL																																			

Element (X)	Z <sub>x</sub>	Z <sub>y</sub>	X	Y	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	753929	13295	65.2	13.587	204	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	664510	13200	64.7	7.155	204			33.5	15.0	2.6		90
Wet Bulb	684354	11758	57.5	5.726	204			5.7	.4			90
Dew Point	566951	10669	52.3	6.641	204			.9	.4			90

## PSYCHROMETRIC SUMMARY

77-714

YEARS

PAGE 1 12J2-1410  
HOURS 10.5.7.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
32/ 81												.6						1	1																
33/ 82									.8		1.1							2	3																
34/ 83									1.1	1.1		.6						3	5																
35/ 84								.6	1.1	1.7	2.2	.8	1.7					14	14																
36/ 85									1.1	.6	1.1	1.7						15	16																
37/ 86						.8	.6	3.3	.6	1.7	1.1			.6				15	15																
38/ 87						.8	1.1	2.8	2.8									16	13																
39/ 88					2.2	.8	1.1	1.1				.6						16	10																
40/ 89				.6	.8	1.7	1.1	1.1										16	9	1															
41/ 90				.6	2.4	3.9	4.4		.6									21	21	3	2														
42/ 91			1.1	2.2		2.8	4.4	2.2										24	23	5															
43/ 92			.6	1.7	2.2	3.3	2.2	.6										17	19	1	2														
44/ 93		.6		1.1	2.8	3.3	1.1											18	18	21	1														
45/ 94	.6	1.1	.8	.6	1.1	1.7												16	12	19	4														
46/ 95				1.1	2.2	1.7												17	9	27	13														
47/ 96				.6	1.1													3	3	13	10														
48/ 97			.5															1	1	22	26														
49/ 98																				23	10														
50/ 99		.6																1	1	15	12														
51/ 100																				11	16														
52/ 101																				2	18														
53/ 102																					38														
43/ 47																					8														
45/ 45																					7														
44/ 43																					8														
42/ 41																					4														
40/ 39																					2														
38/ 37																					1														
34/ 33																					1														
TOTAL	1.1	1.7	3.9	9.4	14.9	19.3	23.2	11.6	7.7	4.4	2.2	.6						151	161		161														

Element (X)	Z <sub>x</sub> <sup>1</sup>	Z <sub>x</sub>	R	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	463810	4912	49.2	11.785	181	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1016062	13496	74.5	7.321	181			73.1	49.2	26.4		90
Wet Bulb	705334	11258	62.2	5.322	181			20.9	3.0			30
Dew Point	530939	9727	53.7	6.752	181			1.5				90

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 1500-1700  
HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B.	W.B.	Dry Bulb	Wet Bulb	Dew Point												
94/ 93												1.0						1		1														
92/ 91												1.0						1		1														
90/ 90												1.0	2.0	1.0				2		4														
88/ 87												2.0	3.1					2		5														
86/ 85						1.0						2.0						4		4														
84/ 83						1.0						2.0			1.0	1.0		6		6														
82/ 81												1.0	1.0	1.0				2		3														
80/ 79						1.0												4		4														
78/ 77						1.0												7		7														
76/ 75																		11		11		1												
74/ 73																		14		14		1												
72/ 71						0.1	1.0											14		10		3												
70/ 69																		10		10		3												
68/ 67																		1		1		2												
66/ 65																		2		4		1												
64/ 63																		5		2		1												
62/ 61																		1		1		2												
60/ 59																		1		1		17												
58/ 57																						10												
56/ 55																						8												
54/ 53																						5												
52/ 51																						2												
50/ 49																						11												
48/ 47																						10												
46/ 45																						8												
44/ 43																						4												
42/ 41																						10												
40/ 39																						3												
38/ 37																						2												
36/ 35																						1												
34/ 33																						2												
22/ 21																						98												
TOTAL				4.1		9.2	8.2	8.2	22.9	16.3	9.2	8.2	3.1	1.0	1.0		2.0			98		98												

Element (X)

Rel. Hum.

Dry Bulb

Wet Bulb

Dew Point

$\Sigma x^2$

206240

562730

371542

261440

$\Sigma x$

4304

7300

6010

4990

$\bar{x}$

43.913372

75.4

61.3

50.9

$s_x$

13.372

7.505

5.552

8.779

No. Obs.

98

98

98

98

Mean No. of Hours with Temperature

$\leq 0^\circ\text{F}$

$\leq 32^\circ\text{F}$

$\geq 67^\circ\text{F}$

$\geq 73^\circ\text{F}$

$\geq 80^\circ\text{F}$

$\geq 93^\circ\text{F}$

Total

90

90

90

## PSYCHROMETRIC SUMMARY

YEARS MONTH DAYS HOURS

[illegible]

DATA PROCESSING BRANCH  
USAFETAC  
AIR WEATHER SERVICE/TAO

# PSYCHROMETRIC SUMMARY

14712 BARCELONA REALES RANGE SPAIN 70-74

STATION

STATION NAME

YEARS

NOT  
MONTH

Page 1 000-0000  
HOURS 5.0

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B.	W.B.	Dry Bulb	Wet Bulb	Dew Point																
64/ 63			1.0																																			
62/ 61			1.0	1.0																																		
60/ 59			1.0	1.0	1.0																																	
58/ 57			1.0	1.0	1.0	1.0																																
56/ 55			1.0	1.0	1.0	1.0	1.0																															
54/ 53			1.0	1.0	1.0	1.0	1.0	1.0																														
52/ 51			1.0	1.0	1.0	1.0	1.0	1.0	1.0																													
50/ 49			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0																												
48/ 47			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0																											
46/ 45			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0																										
44/ 43			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0																									
42/ 41			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0																								
40/ 39			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0																							
38/ 37			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0																						
36/ 35			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0																					
34/ 33			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0																				
32/ 31			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0																			
30/ 29			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0																		
28/ 27			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0																	
TOTAL	7.831.533.8	5.9	1.0																																			

USAFETAC FORM 0-26-5 (O.L.A.) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

7-74

YEARS

21  
MONTH

P. 1 1001-1100  
HOURS P. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
72/ 71																		1	1																
70/ 69																		1	1																
68/ 67					1.4													4	4																
66/ 65				2.2	1.0													7	7																
64/ 63			1.3	1.0	1.0													10	12	0															
62/ 61			1.4	1.0	1.4													10	13	0															
60/ 59		1.3	3.2	1.0	2.0	1.4												21	21	17	4														
58/ 57		1.4	1.4	1.0	2.0	2.0												20	20	12	10														
56/ 55		1.4	1.4	2.0	3.2	1.0												19	19	10	10														
54/ 53		2.0	4.1	6.5	1.4													32	32	17	13														
52/ 51		2.0	2.0	4.0														22	32	18	8														
50/ 49		1.4	3.7	1.0	1.0													19	15	33	22														
48/ 47	1.4	2.0	5.1	1.4														20	20	35	10														
46/ 45		2.0	1.4															9	9	30	13														
44/ 43		1.4	2.0															8	8	18	21														
42/ 41		1.4	1.4															6	6	6	47														
40/ 39		1.4																2	2	10	21														
38/ 37																				3	10														
36/ 35																					14														
TOTAL	1.4	20.333	223.014	17.4	1.4													217	217	217	217														

Element (X)	Σ X'	Σ X	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	1105753	15091	72.3	12.016	217	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	653263	11821	54.5	6.568	217			2.6				93
Wet Bulb	545606	10810	49.8	5.733	217							93
Dew Point	438198	9874	45.5	6.422	217							93



## PSYCHROMETRIC SUMMARY

YEARS

DATE 1 1700-1400  
HOURS P. S. T.

[illegible]

USAFETAC  
FORM  
JUL 64  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
OSAF LTAC  
AIR-TECHNICAL SERVICE

# PSYCHROMETRIC SUMMARY

14013 BARBERAS LEALES DANCE SPAIN 70,72-74

YEARS

DATE 1 10-1730  
HOURS 11.5.71

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B.	W.B.	TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL	
70/ 77																																					
71/ 71																																					
72/ 71																																					
73/ 69																																					
68/ 67																																					
69/ 66																																					
64/ 63																																					
62/ 61																																					
60/ 59																																					
58/ 57																																					
56/ 55																																					
54/ 53																																					
52/ 51																																					
50/ 49																																					
48/ 47																																					
46/ 45																																					
44/ 43																																					
42/ 41																																					
40/ 39																																					
38/ 37																																					
36/ 35																																					
34/ 33																																					
TOTAL																																					

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature					Total
Rel. Hum.	333637	5649	52.9	14.560	111	$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$
Dry Bulb	459592	7112	64.1	5.763	111			31.6	5.9		
Wet Bulb	330208	5032	54.3	4.684	111						
Dew Point	237108	5074	45.7	6.913	111		1.7				

## PSYCHROMETRIC SUMMARY

13-75

YEARS

DATE: 1965-05-10  
HOURS: 5:00

[illegible]

USAFETAC  
FORM  
JUL 64  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA RECORDING FORM  
 USAF 27-0  
 AIRCRAFT FIELD NO. VIC 7-01

# PSYCHROMETRIC SUMMARY

14714 STATION NAME STATION NAME  
 STATION YEARS MONTH

2001-2001  
 HOURS

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
67/ 57		1.4	0.5															12	7
64/ 55		0.5	0.5	0.5														7	1
64/ 53			2.7	0.2														7	5
62/ 52		1.0	1.0															12	7
60/ 48	0.1	0.5	4.1															21	26
48/ 47	1.3	0.3	4.6	0.5														24	1
46/ 46	2.7	0.6																14	27
44/ 43	0.3	0.3	0.5	0.5														22	15
42/ 43	0.0	4.1	2.0		0.5													26	15
41/ 39	2.7	0.3	1.0		0.5													22	15
39/ 33	0.8	0.2	0.5															10	30
36/ 35	1.4	1.4	1.4	1.4														12	12
34/ 23	0.0	0.9																7	12
32/ 21	2.0	0.4																7	11
30/ 21	1.4	0.5																0	7
29/ 27																		1	1
28/ 23	0.1																	1	1
24/ 23																			
22/ 21																			
TOTAL	32.5	42.1	119.3	4.5	0.9													221	221

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature					Total
Rel. Hum.	1761076	19572	58.0	11.233	221	$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$
Dry Bulb	429833	9631	43.6	6.773	221		3.7				
Wet Bulb	399725	9291	42.0	6.461	221		0.1				
Dew Point	369741	8505	40.3	7.643	221		14.3				

## PSYCHROMETRIC SUMMARY

YEARS

Page 1 100-110  
MOORE, S. J.

[illegible]USAFETAC  
FORM  
NO. 44  
0-26-5 (OL A)  
REVISED FEBRUARY 1975 EDITION  
GPO: 1975-404-134-2-1

DATA PLACES, ENG. FAC. CO.  
USAF ETAC  
AT WEATHER SERVICE

# PSYCHROMETRIC SUMMARY

14715 ALCANTARA, CALES, 14 107 SPAIN 70-74

STATION

STATION NAME

YEARS

MONTH

100-1-10  
HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL D.B. W.B. Dry Bulb		TOTAL Wet Bulb Dew Point	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31																				
70/ 53																																					
67/ 67																																					
66/ 58					2.2	2.5	.7	.7																													
64/ 60							3.0	.7																													
62/ 61			.7	2.3	2.2	1.5	.7																														
60/ 59				2.2	7.2	5.5	.7																														
57/ 57			1.5	5.3	4.4	1.5	.7	.7																													
56/ 58				2.2	0.6	1.5	2.2	.7																													
54/ 5				2.2	2.8	1.5	.7																														
52/ 51			1.5	5.1	.7	.7	.7																														
52/ 41			2.2	3.5	2.2	.7	.7																														
47/ 47			.7	3.5		.7																															
46/ 45				1.5	.7																																
44/ 44				1.5	.7	.7																															
42/ 41				.7																																	
41/ 32																																					
37/ 37																																					
35/ 35																																					
34/ 33																																					
32/ 31																																					
31/ 27																																					
24/ 23																																					
TOTAL			0.631	4.29	3.15	112.4	2.7	.7																													
																												</									

USAFETAC FORM 0-26-5 (OL A) JUL 64 REVISD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	642422	9224	67.3	12.5	137	$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	90
Dry Bulb	440010	7778	56.3	3.8	139			2.6				90
Wet Bulb	250873	5597	50.3	5.2	137							90
Dew Point	282971	6163	45.0	6.4	137		5.3					90

## PSYCHROMETRIC SUMMARY

76-74

YEARS

Date: 1 1967-1700  
HOURS: 1.5.1

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
61/ 67					2.0	2.0												1	2																
63/ 67					3.0		2.0											3	3																
62/ 61			5.0			7.0												7	7																
67/ 57	2.0	2.0	11.0	2.0	3.0		4.0											12	12	2															
56/ 57				2.0	2.0	2.0	2.0											4	4																
50/ 50			2.0	5.0		2.0												5	5		3														
54/ 50			3.0	5.0	2.0	2.0												7	7	10	1														
52/ 51						3.0												3	2	5	2														
50/ 40			2.0	2.0														2	2	7	4														
47/ 47			3.0	2.0	2.0													4	4	3	7														
46/ 45	2.0				2.0													2	2	5	4														
44/ 40																				4	3														
42/ 47					2.0													1	1	3	3														
40/ 43																				1	2														
37/ 57																				1	2														
35/ 30																				1	3														
34/ 23																					2														
32/ 25																					4														
29/ 27																					1														
24/ 25																					1														
TOTAL		3.519	6.779	4.17	0.23	3.5	3.0	2.0										51		51	51														
																		51		51															

Element (X)	Σ x'	Σ x	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	201752	3138	61.5	13.2	51							90
Dry Bulb	163473	2873	56.3	5.7	51							90
Wet Bulb	127385	2533	49.7	5.0	51							90
Dew Point	96859	2197	42.9	7.8	51		10.0					90

USAFETAC  
FORM 0-26-5 (OL A)  
JUL 64  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

14013 2000045 STAGS RANGE SPAIN 70-75  
 STATION STATION NAME YEARS

# PSYCHROMETRIC SUMMARY

PAGE 1 MONTHS 12 HOURS 24

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb Wet Bulb Dew Point
45/ 45			3.0															1	1
44/ 43		1.7																1	1
42/ 41		0.0	1.7	3.0														1	1
41/ 39		1.7	0.0															1	1
38/ 27		1.7	1.1															1	1
36/ 35			7.1	2.0														1	1
34/ 33		1.0		3.0														1	1
33/ 31		0.0																1	1
31/ 29		0.0																1	1
28/ 27		7.1	0.0															1	1
25/ 24																		1	1
24/ 23		0.0																1	1
21/ 19			3.0															1	1
18/ 17																		1	1
17/ 16																		1	1
TOTAL	32.0	40.0	41.0	0.0														30	23
																		2.0	2.0

Element (X)	Σ x <sup>2</sup>	Σ x	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	226478	2502	99.4	10.375	28	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	40671	1087	36.2	6.658	30		24.8					93
Wet Bulb	35546	932	35.1	6.400	28		29.9					93
Dew Point	32422	932	33.3	7.200	28		36.5					93



## PSYCHROMETRIC SUMMARY

77-74

YEARS

P. C. 1      65-900  
HOURS 5, 7.

[illegible]

USAFETAC FORM 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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•

75-74

YEARS

MONTH

DATE 1 0900-1100  
HOURS L. S. T.

USAFETAC FORM 0-26-5 (OL A) JUL 64  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

7-24

YEARS

PAGE 1 1207-1400  
HOURS 11.5.1.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
52/ 51			1.2															1	1																
53/ 50						2.3												2	2																
54/ 57					1.2	2.3												3	3	1															
56/ 55			3.2	2.3	9.3	1.2												14	14																
54/ 50			4.7		2.3													5	5	2	1														
52/ 51			1.2	7.0	9.3													15	15	4															
50/ 40		1.2	2.3	3.3														14	14	11	4														
40/ 47			2.3	2.3														4	4	10	4														
46/ 45	1.2	1.2	3.3	3.3														6	6	22	5														
44/ 43			2.3		1.2	1.2												4	4	12	5														
42/ 41	2.3	4.7																6	6	6	17														
40/ 30	1.2	4.7																5	5	5	20														
38/ 37					1.2													1	1	2	10														
36/ 25		1.2																1	1	1	13														
34/ 33	1.2																	1	1	2	2														
32/ 31	1.2																	1	1	1	5														
30/ 20																				1															
28/ 25																					1														
14/ 14																					1														
TOTAL		7.0	15.1	25.0	22.1	24.4	5.0												87		30														
																		35		86															

Element (X)	$\Sigma X$	$\Sigma X^2$	$\bar{X}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
						$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	
Rel. Hum.	453333	6111	71.1	14.9	86							86
Dry Bulb	213020	4270	49.1	6.3	87		1.1					93
Wet Bulb	173242	4838	44.0	4.8	86		2.2					93
Dew Point	138028	3414	39.7	5.4	86		5.4					93

USAFETAC  
FORM 0-26-5 (OL A)  
JUL 64  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

DATE: 1 15-09-1700  
HOURS: 10.00 A.M.

WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
Temp. (F)	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
67/ 61																																		1	1		
67/ 64																																		2	2		
63/ 57																																		3	4		
56/ 55																																		4	5		
54/ 53																																		5	6		
52/ 51																																		6	7		
52/ 47																																		7	8		
46/ 47																																		8	9		
46/ 43																																		9	10		
44/ 40																																		10	11		
42/ 41																																		11	12		
43/ 39																																		12	13		
38/ 37																																		13	14		
36/ 35																																		14	15		
37/ 29																																		15	16		
28/ 27																																		16	17		
13/ 17																																		17	18		
TOTAL	6.9	10.0	15.7	6.7	50.0	10.0	3.5																										30	30	30		

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	126123	1903	63.4	13.745	30	$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	
Dry Bulb	79259	1531	51.0	6.234	30							93
Wet Bulb	61431	1331	45.0	4.514	30		3.1					93
Dew Point	45330	1156	38.5	5.204	30		6.2					93

2

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

14013 BARDENAS REALES RANGE SPAIN

70-75

STATION

STATION NAME

YEARS

HRS LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
03-05	MEAN	38.3	38.6	39.5	45.8	51.3	56.5	62.2	63.3	57.3	49.0	43.8	36.2	48.6
	S D	6.292	5.313	5.620	6.166	5.662	5.341	4.079	5.379	5.706	6.717	6.425	6.658	10.671
	TOTAL OBS	50	51	55	49	48	45	26	66	67	59	71	30	626
06-08	MEAN	38.5	38.7	40.0	46.2	53.7	59.5	65.1	64.1	57.4	49.2	43.6	37.7	49.3
	S D	6.908	5.569	5.752	6.491	6.208	5.394	5.152	5.687	6.473	6.872	6.773	6.989	11.232
	TOTAL OBS	211	206	235	256	263	191	107	262	239	204	221	137	2544
09-11	MEAN	42.0	42.8	46.0	53.6	62.1	67.5	73.5	72.2	64.7	54.5	47.3	40.7	54.4
	S D	6.612	5.241	5.845	6.390	5.668	6.512	5.615	6.248	7.155	6.568	6.654	7.121	12.605
	TOTAL OBS	223	228	270	245	207	160	93	220	204	217	226	147	2440
12-14	MEAN	49.2	51.4	54.5	61.8	68.6	76.1	83.2	81.8	74.6	64.2	56.0	49.1	65.1
	S D	6.637	4.757	6.151	7.143	7.944	7.300	6.530	7.722	7.361	7.594	5.888	6.336	13.309
	TOTAL OBS	130	138	170	204	222	147	87	211	181	135	139	87	1851
15-17	MEAN	51.8	53.0	55.7	61.9	71.5	77.4	84.3	84.5	75.4	64.1	56.3	51.0	67.1
	S D	6.260	4.737	6.104	8.675	9.055	8.567	6.840	8.704	7.505	5.963	5.705	6.234	13.486
	TOTAL OBS	47	51	107	94	88	64	33	121	98	111	51	30	395
	MEAN													
	S D													
	TOTAL OBS													
	MEAN													
	S D													
	TOTAL OBS													
	MEAN													
	S D													
	TOTAL OBS													
ALL HOURS	MEAN	42.6	43.7	46.9	53.8	61.5	67.3	73.5	73.1	65.5	55.6	48.2	41.9	56.2
	S D	8.090	7.454	8.576	9.540	10.026	10.010	9.972	10.665	10.233	9.440	8.181	8.423	14.213
	TOTAL OBS	673	674	837	848	828	607	346	880	789	725	708	431	8346

DATA PROCESSING BRANCH  
USAFETAC  
AIR WEATHER SERVICE/PAO

## MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

14013 BARDENAS REALES RANGE SPAIN

70-75

STATION		STATION NAME												YEARS											
HRS LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL											
03-05	MEAN	37.2	36.5	37.1	42.9	47.9	53.5	58.1	58.6	53.7	47.4	42.2	35.1	45.2											
	S D	5.543	4.627	5.077	5.461	4.646	5.003	3.798	4.585	5.764	6.570	6.100	6.400	9.607											
	TOTAL OBS	55	51	55	48	47	45	26	66	67	58	71	24	620											
06-08	MEAN	37.7	36.9	37.9	43.2	49.7	55.1	59.3	59.0	52.9	45.9	42.0	36.5	45.4											
	S D	5.808	5.032	5.297	5.820	5.297	4.775	3.709	4.767	6.106	6.537	6.461	6.422	9.709											
	TOTAL OBS	207	206	233	254	260	191	107	262	249	204	221	136	2520											
09-11	MEAN	40.1	39.6	41.8	47.5	53.7	58.8	62.1	62.5	57.6	49.8	44.4	38.6	48.9											
	S D	5.333	4.437	5.068	5.007	4.788	4.524	3.948	4.709	5.726	5.733	5.925	6.083	9.702											
	TOTAL OBS	214	228	269	243	204	160	93	220	204	217	226	147	2430											
12-14	MEAN	45.3	45.4	46.6	52.3	56.6	62.2	65.9	66.0	62.2	55.2	50.3	44.6	55.0											
	S D	5.025	3.537	5.047	5.286	5.271	4.611	4.113	4.814	5.322	6.025	5.200	4.802	9.011											
	TOTAL OBS	128	138	170	202	219	147	87	211	181	135	137	66	1341											
15-17	MEAN	46.6	45.4	46.7	51.2	57.1	62.0	64.7	65.6	61.3	54.3	49.7	45.0	55.1											
	S D	4.862	3.873	4.811	5.375	5.082	4.072	4.371	4.880	5.552	4.684	5.620	4.514	8.648											
	TOTAL OBS	47	51	107	94	86	64	33	121	98	111	51	30	893											
	MEAN																								
	S D																								
	TOTAL OBS																								
	MEAN																								
	S D																								
	TOTAL OBS																								
	MEAN																								
	S D																								
	TOTAL OBS																								
ALL HOURS	MEAN	40.5	40.2	42.0	47.5	53.2	58.4	62.1	62.4	57.7	50.2	45.0	39.4	49.9											
	S D	6.305	5.640	6.284	6.543	6.032	5.591	4.821	5.622	6.692	6.953	6.795	6.803	10.158											
	TOTAL OBS	659	674	834	841	816	607	346	880	789	725	706	427	8304											

DATA PROCESSING BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/AFAC

## MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

14013 BARCELONAS REALES RANJE SPAIN  
STATION STATION NAME

70-75  
YEARS

HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
MEAN	35.7	33.6	33.5	39.7	44.9	50.9	55.1	55.0	50.7	45.0	40.3	33.1	43.2	
S D	5.520	4.499	5.653	5.903	4.763	5.724	4.426	5.096	6.582	7.195	6.704	7.200	9.709	
TOTAL OBS	53	51	55	48	47	45	26	66	67	58	71	23	520	
MEAN	36.1	34.4	34.3	39.7	45.9	51.5	55.2	55.3	51.0	43.7	40.3	34.6	43.5	
S D	5.644	5.093	6.076	6.218	5.777	5.835	4.053	5.227	6.583	6.939	7.033	6.713	9.603	
TOTAL OBS	207	206	233	254	260	191	107	262	239	204	221	136	2520	
MEAN	37.5	35.5	36.7	41.2	46.5	52.1	54.4	56.0	52.3	45.5	41.2	30.9	43.8	
S D	5.259	5.128	6.404	5.910	5.845	5.061	4.993	5.873	6.541	6.422	6.733	6.101	9.264	
TOTAL OBS	219	228	269	243	204	160	93	220	204	217	226	147	2430	
MEAN	40.9	38.8	38.1	43.4	45.9	52.6	55.1	56.1	53.7	47.7	45.0	39.7	46.8	
S D	5.592	5.704	7.080	6.742	5.925	6.650	5.332	6.566	6.752	7.298	6.494	5.423	7.425	
TOTAL OBS	128	138	170	202	219	147	87	211	181	135	137	66	1541	
MEAN	41.1	36.8	36.6	40.9	45.6	51.2	51.8	53.5	50.9	45.7	42.9	38.5	45.2	
S D	6.100	6.016	8.107	6.705	6.436	5.895	5.259	6.268	8.709	6.913	7.955	5.204	9.206	
TOTAL OBS	47	51	107	94	86	64	33	121	98	111	51	30	893	
MEAN														
S D														
TOTAL OBS														
MEAN														
S D														
TOTAL OBS														
ALL HOURS	MEAN	37.9	35.8	36.2	41.2	46.2	51.9	54.6	55.4	51.9	45.4	41.7	36.3	44.5
S D	5.875	5.596	6.776	6.388	6.153	6.103	5.009	5.916	7.015	6.993	7.070	6.501	9.425	
TOTAL OBS	653	674	834	841	816	607	346	880	789	725	706	427	8304	

2

DATA PROCESSING BRANCH  
STAC/USAF  
AIR WEATHER SERVICE/FAC

# RELATIVE HUMIDITY

14513 BAEKBAAS TALES RANGE SPAIN

70-75

ALL

STATION

STATION NAME

PERIOD

MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	100.0	99.1	96.0	89.4	76.7	57.5	29.4	67.4	609
FEB		100.0	99.6	99.1	95.0	86.0	74.9	63.5	39.0	12.1	72.5	674
MAR		100.0	99.4	98.1	91.2	78.4	66.9	46.5	27.4	11.2	67.4	634
APR		100.0	100.0	98.9	87.7	75.5	58.0	43.1	23.1	5.0	64.5	541
MAY		100.0	99.5	93.0	79.3	65.6	50.5	38.4	19.0	5.5	60.6	516
JUN		100.0	99.4	91.0	80.5	64.1	50.0	33.8	12.4	0.1	60.9	537
JUL		100.0	99.3	86.4	65.5	51.9	39.6	28.6	15.3	1.5	54.2	545
AUG		100.0	99.1	89.0	73.4	53.5	44.9	31.8	11.4	3.7	56.7	550
SEP		99.6	99.1	97.0	86.1	69.9	55.8	43.1	23.0	7.0	63.4	769
OCT		100.0	100.0	99.0	93.1	82.4	70.3	54.6	32.3	15.1	69.9	725
NOV		100.0	100.0	100.0	99.7	91.8	82.8	68.7	45.1	20.2	77.0	706
DEC		100.0	100.0	100.0	99.8	96.4	84.1	69.2	52.4	34.5	79.2	427
TOTALS		100.0	99.7	96.0	87.5	76.4	63.9	50.2	30.4	13.3	67.2	8354



2

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/AC

## RELATIVE HUMIDITY

14113 BAYLENAS - TALES RANGE SPAIN  
STATION

70-75

PERIOD

JUL  
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	01-06											
	06-09	100.0	100.0	100.0	100.0	100.0	100.0	96.0	61.0	44.0	57.7	20
	09-12	100.0	100.0	100.0	100.0	100.0	100.0	97.0	57.0	52.2	69.6	207
	12-15	100.0	100.0	100.0	100.0	99.1	97.3	87.2	51.4	39.0	62.0	218
	15-18	100.0	100.0	100.0	100.0	96.9	83.6	69.4	50.5	12.2	73.0	120
	18-21	100.0	100.0	100.0	95.7	87.2	66.0	42.0	21.0	2.1	68.0	67
	21-24											
	24-27											
	27-30											
	30-31											
	TOTALS	100.0	100.0	100.0	99.1	96.6	89.4	76.7	57.9	29.4	69.4	559

USAFETAC

FORM  
JUL 64

0-87-5 (OL A)



DATA PROCESSING DIVISION  
STAC/USAF  
AIR VENTILATION SERVICE/AAO

## RELATIVE HUMIDITY

[illegible]

76-74

STATION

STATION NAME

PERIOD

MON: H

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

DATA PROCESSING BR FOR  
PTAC/USAF  
AIR & INTR SERVICE / 190

14014	BORLEAS FIELDS NORTH
STATION	STATION NAME

PERIOD

MONITOR

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90		
APR	01-02											
	03-05	100.0	100.0	100.0	100.0	100.0	93.8	79.2	62.1	12.5	70.4	97
	06-08	100.0	100.0	100.0	100.0	100.0	94.9	80.3	44.1	15.0	70.7	254
	09-11	100.0	100.0	100.0	96.3	92.7	59.7	35.0	11.5	1.2	54.0	243
	12-14	100.0	100.0	97.5	79.2	52.0	22.3	11.4	3.0		52.0	202
	15-17	100.0	100.0	87.2	62.8	42.5	19.1	9.6	4.3	1.1	43.3	94
	18-20											
	21-23											
TOTALS		100.0	100.0	96.9	87.7	75.5	58.0	43.1	23.1	5.6	54.5	841

DATA PROCESSING BRANCH  
STAC/USAF  
AIR WEATHER SERVICE/USAF

## RELATIVE HUMIDITY

14410	BARDENAS BLANCS RANGE SPAIN
STATION	STATION NAME

70-75

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STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02											
	03-05	100.0	100.0	100.0	100.0	100.0	95.7	83.0	42.8	12.0	79.3	47
	06-08	100.0	100.0	100.0	100.0	93.1	88.8	71.2	64.6	10.0	75.3	260
	09-11	100.0	100.0	100.0	92.7	88.6	39.7	21.0	5.4	2.5	59.1	304
	12-14	100.0	100.0	92.2	68.5	27.0	17.8	3.7	3.2	.0	47.3	219
	15-17	100.0	97.7	75.6	41.9	24.4	10.5	7.0	4.7		62.0	66
	18-20											
	21-23											
TOTALS		100.0	99.5	9 .6	79.3	65.6	50.5	38.4	12.6	5.3	60.6	816

ALTA POLICE-SAILOR BRANCH  
STAC/CLAF  
117 WEATHER SERVICE / 140

## RELATIVE HUMIDITY

14-114	BARINAS COALES PAGE 5411	70-74	11
STATION	STATION NAME	PERIOD	MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90+		
JULY	00-02											
	03-05	100.0	100.0	100.0	100.0	97.8	95.6	86.7	57.9	22.2	81.3	45
	06-08	100.0	100.0	100.0	100.0	97.4	88.0	70.2	38.2	13.1	75.7	191
	09-11	100.0	100.0	98.8	92.5	70.0	42.5	22.5	12.5	4.4	59.4	150
	12-14	100.0	100.0	87.1	59.9	33.3	12.9	6.6	2.0	.7	45.6	147
	15-17	100.0	96.9	71.9	50.0	21.9	10.9	7.8	1.6		42.1	64
	18-20											
	21-23											
TOTALS		100.0	99.4	91.6	80.5	64.1	50.0	33.8	22.4	8.1	60.9	607

## RELATIVE HUMIDITY

JUL  
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	01-02											
	03-05	100.0	100.0	100.0	100.0	100.0	100.0	20.0	11.3	2.0	77.4	26
	06-08	100.0	100.0	100.0	100.0	95.3	84.1	57.9	14.7	2.0	70.9	107
	09-11	100.0	100.0	98.9	88.2	52.7	12.9	4.2	0.2	1.1	51.0	93
	12-14	100.0	96.9	81.6	33.3	11.5	1.1				38.9	67
	15-17	100.0	100.0	51.5	6.1						32.5	33
	18-20											
	21-23											
TOTALS		100.0	99.6	86.4	65.5	51.9	39.6	28.6	15.3	1.5	54.2	340

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/PAO

14013	BARDENAS REALES RANGE SPAIN
STATION	STATION NAME

70-74

ALC  
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00-02											
	03-05	100.0	100.0	100.0	100.0	100.0	89.4	74.2	22.7	9.1	74.5	66
	06-08	100.0	100.0	100.0	100.0	98.9	90.1	64.1	24.4	0.0	73.3	262
	09-11	100.0	100.0	99.5	95.5	47.3	34.5	13.0	5.0	1.0	57.5	220
	12-14	100.0	98.6	85.8	47.9	20.4	5.6	3.8	3.3	2.0	42.0	211
	15-17	100.0	96.7	63.6	24.8	5.0	4.1	3.3	1.7		35.6	121
	18-20											
	21-23											
TOTALS		100.0	99.1	69.8	73.6	58.3	44.9	31.8	11.4	3.7	56.7	360



2!

## RELATIVE HUMIDITY

2, P  
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	01-02											
	03-05	100.0	100.0	100.0	100.0	98.5	95.5	85.1	47.3	11.9	79.1	67
	06-08	100.0	100.0	100.0	100.0	99.2	96.7	85.6	43.5	16.3	79.5	259
	09-11	100.0	100.0	100.0	99.0	87.7	59.8	26.3	14.7	5.9	55.2	204
	12-14	100.0	99.4	96.1	78.5	37.6	16.0	4.4	2.2	1.1	49.2	161
	15-17	98.0	95.9	91.3	53.1	26.5	12.2	4.1	2.0		43.9	93
	18-20											
	21-23											
TOTALS		99.6	99.1	97.6	86.1	69.9	55.8	43.1	23.0	7.0	63.4	789

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/AC

## RELATIVE HUMIDITY

2. T

STATION

STATION NAME

PERIOD

# MONTE

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

14013	BERGENS VALES RANGE SPAIN
STATION	STATION NAME

76-74

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80	90		
JULY	01-02											
	03-05	100.0	100.0	100.0	100.0	100.0	99.6	93.0	77.5	47.9	67.5	71
	06-08	100.0	100.0	100.0	100.0	99.1	96.8	94.0	75.6	54.3	68.6	221
	09-11	100.0	100.0	100.0	99.6	95.2	91.2	77.9	50.4	27.4	60.1	226
	12-14	100.0	100.0	100.0	97.8	89.1	72.3	44.5	13.1	1.5	67.2	157
	15-17	100.0	100.0	100.0	96.1	72.5	54.9	33.3	7.0		61.5	51
	18-20											
	21-23											
TOTALS		100.0	100.0	100.0	98.7	91.8	82.8	68.7	45.1	26.2	77.0	705

DATA PROCESSING PRACH  
ETAG/USAF  
AIR CATER SERVICE / AI

## RELATIVE HUMIDITY

5.0 MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JULY	00-02											
	03-05	100.0	100.0	100.0	100.0	100.0	100.0	92.7	82.1	57.1	5.4	20
	06-08	100.0	100.0	100.0	100.0	100.0	100.0	92.6	79.4	53.7	38.4	100
	09-11	100.0	100.0	100.0	100.0	100.0	95.9	91.0	62.6	37.4	33.4	147
	12-14	100.0	100.0	100.0	98.8	95.3	74.4	48.0	24.4	17.4	71.1	50
	15-17	100.0	100.0	100.0	100.0	86.7	50.0	30.0	12.3	6.7	53.4	30
	18-20											
	21-23											
TOTALS		100.0	100.0	100.0	99.8	96.4	84.1	69.2	52.4	34.2	79.2	427

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART F

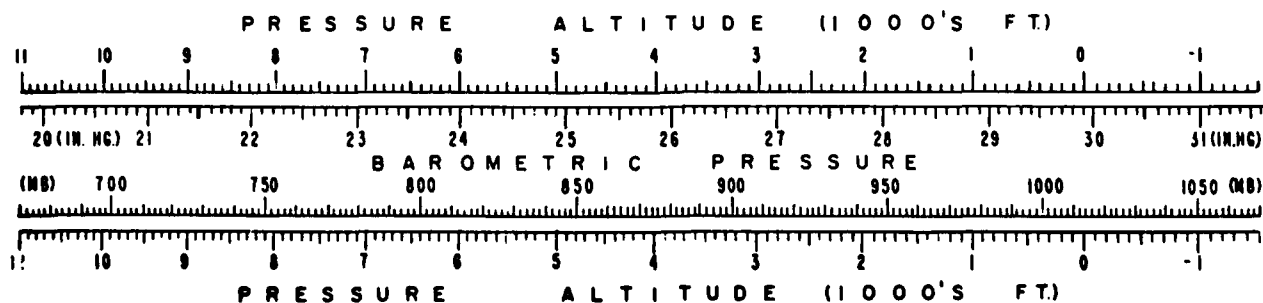
PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.  
Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.  
METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars. DATA NOT AVAILABLE

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM DAILY OBSERVATIONS

14013 BARCELONAS REALES RANCHO SPAIN

12-75

STATION

STATION NAME

YEARS

HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
01	MEAN												
	S D												
	TOTAL OBS												
04	MEAN												
	S D												
	TOTAL OBS												
07	MEAN	29.1252	29.9712	28.9422	28.9612	29.0502	29.0182	29.0022	29.0302	28.9982	28.9872	29.1182	29.023
	S D	.223	.252	.196	.162	.170	.111	.103	.087	.103	.175	.167	.186
	TOTAL OBS	54	57	60	56	57	40	26	65	58	56	58	616
10	MEAN	29.1552	29.0092	28.9672	28.9762	28.9752	29.0302	29.0042	29.0422	29.0272	29.0152	29.1672	29.045
	S D	.223	.267	.197	.165	.200	.098	.094	.088	.104	.179	.179	.193
	TOTAL OBS	50	55	60	57	56	29	26	65	54	56	53	597
13	MEAN	29.1052	29.0332	28.8652	28.9622	28.9572	29.0252	28.9942	28.9962	29.0152	28.9992	29.1142	29.007
	S D	.171	.164	.217	.194	.251	.106	.081	.091	.077	.142	.211	.187
	TOTAL OBS	12	12	26	46	38	11	17	43	21	19	19	281
16	MEAN			28.9052	28.9252	28.9382	28.9592	28.9022	28.9812	28.9532	28.9502		28.941
	S D			.181	.193	.211	.092	.093	.086	.105	.173		.154
	TOTAL OBS			47	40	17	17	10	41	41	46		249
19	MEAN												
	S D												
	TOTAL OBS												
22	MEAN												
	S D												
	TOTAL OBS												
ALL HOURS	MEAN	29.1332	28.9962	28.9302	28.9602	28.9592	29.0112	28.9882	29.0172	29.0012	28.9882	29.1372	29.017
	S D	.223	.247	.197	.174	.203	.104	.098	.090	.103	.180	.179	.187
	TOTAL OBS	123	131	193	179	168	87	79	214	164	177	140	1733

END

DATE  
FILMED

10-80

DTIC